Soil Boring Log Boring No.: DB-1 Monitoring Well No.: DB-1 Rohm and Haas Philadelphia Plant Date Started: 11/29/07													
Proje	Project: Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania Date Started: 11/29/07 Date Finished: 11/29/07 Survey N256157.90 Ground Inner Casing Outer Casing												
	ey ition:	N256157.90 E2721517.60	Ground Elevation:	6.00 ft.	Inner Casi Elevation:	_		ft.		er Casing ation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS			
	Asphalt Brown fine-coarse Silty SAND, some fine to coarse angular gravel, dense-very dense, dry - 4.5 CONCRETE CONCRETE - 3.0												
5—	Black gravelly fine-coarse SAND, intermittent brick fragments, very loose, saturated Black gravelly fine-coarse SAND, intermittent brick 260 1 1 1 1 1 1 1 1 1												
	Dark gray to brown Silty fine-medium SAND, wet, loose Dark gray to brown Silty fine-medium SAND, wet, loose Trace brick frags and fine-medium rounded gravel Trace brick frags and fine-medium rounded gravel Analytical soil sample collected from 8.0-9.0 feet												
	= parts	s per million w ground surfac	-	ows per foot o Well Install	ed :			analytical	_	e collected mpletion			
	Driller: Eichelbergers - Mike MartinezDepth to Water:3.00 ft bgsDrilling Method:CME 75 HSADate of Measurement:11/29/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003												

S	oil B	oring Log			Boring No.: DB-1 Monitoring Well No.: DB-1						
Project: Rohm and Haas Philadelphia Plant Date Started: 11/29/07 Philadelphia, Pennsylvania Date Finished: 11/29/07											
Surv	Inner Casi Elevation:	_		ft.			er Casing ation: ft.				
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
Trace fine-coarse angular gravel -5.0 Dark Gray Silty CLAY with trace fine sand, loose, saturated 2 205 End of Boring at 12 feet bgs										Analytical soil sample collected from 10.0-11.0 feet	
15—		End of Boring a						-			
	= part	s per million ow ground surface	_	ows per foot to Well Install	ed :				-	_	e collected mpletion
	Driller: Eichelbergers - Mike MartinezDepth to Water:3.00 ft bgsDrilling Method:CME 75 HSADate of Measurement:11/29/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

Soil Boring Log Boring No.: DB-2 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant Date Started: 11/28/07											
Projec	Rohm and Haas Philadelphia Plant Date Started: Philadelphia, Pennsylvania Date Finished:									11/28/ 11/28/	
Survey Location	tion: E2721498.60 Elevation: 5.90 ft. Elevation: ft.							er Casing ation: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	<u>5.7</u> _ <u>5.0</u> _		ne-coarse SAND		•		12		1.0	_	
		diy	0.5	_							
	2.9 Light gray medium SAND with brick fragments, loose, wet Dark brown Clayey fine-coarse SAND with gravel fragments, medium dense, saturated 5 0.										
5—		Brown to dark l brick, and wood	orown Clayey fir I fragments, very	ne-coarse SANI y loose, saturate	O with gravel, d		2		0.4	_	
							1 1 1		10.495.5	_	
							1 1 2		142	_	Analytical soil sample collected from 7.0-8.0 feet
-							1		89.5	_	Analytical soil sample
	<u>-3.8</u>	Gray Silty CLA	Y, medium plas	ticity, medium	stiff, moist		9		4895		Analytical soil sample collected from 9.0-10.0 feet
	_	s per million ow ground surfac	_	lows per foot No Well Install	ed				-	_	e collected mpletion
	_	Driller: Eichel Method: nspector: J. I	bergers - Mike CME 75 HSA Bridge/ M. Pitc	<u> </u>	Date		1ea	sure	Water ement et No.	:	3.00 ft bgs 11/28/2007 997570.00003

Soi	il B	oring Log					_	y No.: oring V		: lo.: N/W		
Projec	Project: Rohm and Haas Philadelphia Plant Date Started: 11/28/07 Philadelphia, Pennsylvania Date Finished: 11/28/07											
Survey Location		N256110.20 E2721498.60	Ground Elevation:	5.90 ft.	Inner Casi Elevation:	_		ft.		er Casing ation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
	-5.2 -6.1	Gray Silty CLA Intermittent org	Y, medium plast	icity, medium s	tiff, moist		9 5 1	3993 4917	_			
15—	-0.1	End of boring a	t 12 feet bgs				2		-			
		s per million w ground surfac	_	ows per foot o Well Install				-	_	e collected npletion		
	Driller: Eichelbergers - Mike MartinezDepth to Water:3.00 ft bgsDrilling Method:CME 75 HSADate of Measurement:11/28/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003											

So	oil B	oring Log					_				/ SB-140 lo.: N/W
Proje	JCt.	Rohm and Haa Philadelphia, F	•	a Plant	Date Sta Date Fir					11/28/ 11/28/	
Surv Loca	-	5.90 ft.	Inner Cas Elevation:	_		ft.			r Casing ation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_	5.7	Asphalt Brown to dark to very dense, dry	prown Clayey fin	ne-coarse SANE	with gravel,		36 29		2.2	_	
_							13 10		0.5	_	Analytical soil sample collected from 0.0-2.0 feet
_		Saturated at 3 fe	eet			5		19.3	<u>Ā</u> -		
_							3 2		33.9209	_	
5—	<u>0.1</u>		-5-5	-			1		146		
		Dark brown to l	AND, loose, satt black Clayey find ents, very loose,	e-coarse SAND	with gravel	=	woh		34.1	_	
—								_			
_					= =	woh woh		1139	_	Analytical soil sample collected from 8.0-9.0 feet	
	-4.1					+ + + + + + + + + + + + + + + + + + +	1		7665		Analytical soil sample collected from 9.0-10.0 feet
	= parts	s per million ow ground surfac		lows per foot o Well Install	ed				-	_	e collected mpletion
	_	Driller: Eichell Method: nspector: J. I	bergers - Mike CME 75 HSA Bridge/ M. Pitc	1	Date		1ea:	sure	Water ement	:	3.00 ft bgs 11/28/2007 997570.00003

So	oil B	oring Log								/ SB-140 o.: N/W			
Project: Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania Date Started: 11/28/07 Survey N256114.90 Ground Inner Casing Outer Casing													
Surv Loca	-	N256114.90 E2721531.80	Ground Elevation:	5.90 ft.	Inner Cas	_		ft.		Outer Casing Elevation: ft.			
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS			
_	-6.1	Gray Silty CLA saturated	Y, medium-high	plasticity, med	ium stiff,		2 2	2686 8995	-				
15—	0.1	End of Boring a	at 12 feet bgs				3						
	= parts	s per million w ground surfac	_	ows per foot o Well Install	ed			analytica vater leve		collected pletion			
	Driller: Eichelbergers - Mike MartinezDepth to Water:3.00 ft bgsDrilling Method:CME 75 HSADate of Measurement:11/28/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003												

Proje		oring Log Rohm and Haa Philadelphia, F	-			lon arte	itc	ori	ng V	DB-4 Vell N 11/29/ 11/29/	lo.: N/W 07	
Surv Loca	ey ition:	N256140.70 E2721576.30	Ground Elevation:	6.00 ft.	Inner Casi Elevation:	ing		ft.		Outer Casing Elevation: ft.		
DEРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_	5.8	Asphalt Brown to gray fand rounded GI	ine-coarse Silty RAVEL, dense,	SAND and fine dry	-coarse angula		13 18 13		0.7	-		
_	4.0	CONCRETE				/50 /5 NA NA			-			
5	_ 2.0	Dark brown to dense, saturated	Dark gray fine-c	oarse Gravelly S	SAND, very		31 17		10.2 357	_ <u>Ā</u> -		
_	0.0	Reddish orange SAND, very de	to Light brown nse, saturated	ish gray fine-coa	irse Gravelly		1		56.5 181	-		
_				4		82.5	-					
	-4.0					= = = = = = = = = = = = = = = = = = =	3		705		Analytical soil sample collected from 9.0-10.0 feet	
	= part	s per million ow ground surfac	_	lows per foot No Well Install	ed .				-	_	e collected npletion	
	_	Driller: Eichel g Method: [Inspector: J. I	bergers - Mike CME 75 HS/ Bridge/ M. Pito	A	Date		1ea	sur	Water ement ct No.	•	4.00 ft bgs 11/29/2007 997570.00003	

S	oil B	oring Log					_		DB-4	1 No.: N/W
Proj	ect:	Rohm and Haa Philadelphia, I	-	a Plant	Date Sta Date Fir				11/29/ 11/29/	
Surv	ey ition:	N256140.70 E2721576.30	Ground Elevation:	6.00 ft.	Inner Casi Elevation:	_		ft.		er Casing vation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil	WELL SCHEMATIC	WELL MATERIALS
_		Reddish brown angular gravel,	fine-medium Cla medium dense, s	ayey SAND wit saturated	h trace coarse		9 9 8	28.	6	
Reddish brown to Dark gray Sandy CLAY, stiff, saturated 3										
4 342 2 2 1 1 421										
_ 15 	<u>-8.0</u> .	Gray to brown fragments, dens	fine-coarse Grav e, saturated	elly SAND, trac	e wood	= = = = = =	6 7 11	363	3	
_		Note: Strong od	lor, no wood frag	gments		= = = = = = = = = = = = = = = = = = =	7	236	9	Analytical soil sample collected from 15.0-16.0 feet
_						======================================	3	334		
Dark gray Silty CLAY with trace organics, soft-medium stiff, saturated 3 224										
_							2	27"	7	Analytical soil sample collected from 19.0-20.0
	= part	s per million ow ground surface	•	lows per foot Io Well Install	ed			-	_	le collected mpletion
	_	Method:	bergers - Mike CME 75 HSA Bridge/ M. Pitc	<u>\</u>	Date		/leas	to Wat sureme	nt:	4.00 ft bgs 11/29/2007 9997570.00003

S	oil B	oring Log					_			DB-4 Vell N	lo.: N/W		
Proje	Project: Rohm and Haas Philadelphia Plant Date Started: 11/29/07 Date Finished: 11/29/07 Survey N256140.70 Ground Inner Casing Outer Casing												
	ey ition:	N256140.70 E2721576.30	Ground Elevation:	6.00 ft.	Inner Casi Elevation:			ft.			er Casing ation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
	-15.0	saturated	CLAY with trace	e organics, soft	-medium stiff,		1		82		feet		
		End of Boring a	at 21 feet bgs				1			_			
_													
_										_			
25—										_			
_										_			
_										_			
_										_			
_													
	= parts	s per million ow ground surface	_	ows per foot o Well Install					-	_	e collected npletion		
	Driller: Eichelbergers - Mike Martinez Depth to Water: 4.00 ft bgs Drilling Method: CME 75 HSA Date of Measurement: 11/29/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003												

S	oil B	oring Log					_		lo.: ng W		5 No.: N/W
Proje	ect:	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir					11/30/ 11/30/	
Surv	-	N256087.80 E2721592.50	Ground Elevation:	5.90 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_	5.7	Asphalt Dark brown to langular gravel,	black fine-coarse very dense, dry	e Silty SAND, tı	ace fine-coarse	3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 = 3 =	17		0.0	-	
_	$=\frac{3.9}{3.8}$	Brick fragments Black fine-coar dense, saturated	se Silty SAND w	vith wood fragm	ents, medium		8		26.5	<u> </u>	
_							4 50 /5 36		wood	-	
5—		Fine-coarse ang	ular gravel				14 7 5		64.9	-	
_		Note: Strong od	•				5		203 76.8	-	
_	-3.1						10		189	-	
	-4.1	Light brown to fine-coarse rour strong odor	reddish brown fi nded GRAVEL,	ne-coarse Silty medium dense,	SAND and saturated,		10		1655	_	Analytical soil sample collected from 9.0-10.0 feet
	= part	s per million ow ground surface	•	lows per foot Io Well Install	ed 2	(a) ⊻			-	_	le collected mpletion
	_	Driller: Eichel Method: nspector: J. I	bergers - Mike CME 75 HSA Bridge/ M. Pitc	Α	Date		Mea	sur	Water: ement	:	2.00 ft bgs 11/30/2007 9997570.00003

S	oil B	oring Log		Boring No.: DB-5 Monitoring Well No.: N/W hia Plant Date Started: 11/30/07							
Project: Rohm and Haas Philadelphia Plant Date Started Date Finished										11/30/ 11/30/	
	ation: E2721592.50 Elevation: 5.90 ft. Elevation: ft.							er Casing ation: ft.			
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_	<u>-5.1</u>		reddish brown f saturated			1	3 2		2124 1251	-	Analytical soil sample collected from 10.0-11.
End of Boring at 12 feet bgs										-	
5										_	
_										_	
										-	
										_	
	= part	s per million ow ground surfac	_	lows per foot No Well Install	ed <u>y</u>				-	_	e collected npletion
		Driller: Eichel g Method: Inspector: J. 1	bergers - Mike CME 75 HSA Bridge/ M. Pitc	<u> </u>	Date		Леа	sur	Water ement et No.		2.00 ft bgs 11/30/2007 997570.00003

S	oil B	oring Log					_			DB-6 Vell N	lo.: N/W
Proje	JCT'	Rohm and Haa Philadelphia, I	-	a Plant	Date Sta					11/30/ 11/30/	
Surv	ey ition:	N256097.00 E2721699.40	Ground Elevation:	6.80 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		DESCRIPTION		SPT (bpf) SAMPLES				WELL SCHEMATIC	WELL MATERIALS	
	6.6	AsphaltBrown to brown fine-coarse ang	nish gray fine-coa ular GRAVEL, v	arse Silty SANI ery dense, dry	O and		12		0.0	_	
_		Intermittent brid	ck fragments				35		122	-	
5—		Intermittent wo	od fragments, mo	oist			12 19 21 30 35 50 /3 NA 29 17		1649	-	Analytical soil sample collected from 4.0-5.0 feet
-	0.8	saturated grading to:	tan fine-coarse S		ŕ		3 6 7 4		627 332	<u> </u>	Analytical soil sample collected from 6.0-8.0 feet
	<u>-1.2</u> -3.2	e organics,		3 2 1 1		276 88.2	-				
	s: = parts	s per million w ground surfac	•	ows per foot o Well Install	ed .	(a) ¥		-	-	_	e collected npletion
	•	Driller: Eichel Method: nspector: J. I	Martinez hford	Depth to Water: 6.00 ft bgs Date of Measurement: 11/30/2007 Project No.: 19997570.00003				11/30/2007			

S	oil B	oring Log						-		DB-6 Vell N	o.: N/W
Proj	ect:	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin			ŀ		11/30/0 11/30/0	
Surv	ey ation:	N256097.00 E2721699.40	Ground Elevation:	6.80 ft.	Inner Casi Elevation:	ng		ft.		Oute Eleva	r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_	-5.2	Gray to red to o sand, trace orga	rangish brown m nics, medium sti	nottled Silty CL ff, saturated	AY, trace fine		1 1 2		217 175	-	
_	-3.2	End of Boring a	at 12 feet bgs				2			-	
15—									_		
_										-	
_									-		
Notes											
	= part	s per million ow ground surfac	-	ows per foot o Well Install					-	_	e collected npletion
	_	Driller: Eichell g Method: [Inspector: J. I	bergers - Mike CME 75 HSA Bridge/ M. Pitc	<u> </u>			Леа	sur	Water ement ct No.	:	6.00 ft bgs 11/30/2007 997570.00003

Proje	Ct.	Rohm and Haa Philadelphia, F	-	ia Plant	Date St Date Fi				11/30/ 11/30/	
Surve	-	N256213.50 E2721699.50	Ground Elevation:	Inner Cas Elevation	_	1	t.	Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil	WELL SCHEMATIC	WELL MATERIALS
		Brownish gray angular gravel,	fine to coarse Si medium dense,	lty SAND, trac dry	e fine-coarse		3	0.0	-	
_		Saturated at 2 fo	eet			4 3 2	0.0	፱ .		
_	<u>2.4</u>				.===-	=======================================	1 1 1	0.0	-	
5—		Black fine to co gravel, medium	dense, saturated), trace fine-cos	arse angulai		2 14 7	0.3	_	Analytical soil sample collected from 7.0-9.0 feet
_						=	7	1.1		
	1.6	Black fine to co	arse Silty SANI	D, some clay, m	edium dense,		4 4 5	1.0		Analytical soil sample collected from 9.0-11.0 feet
_		Saturated					213	4.3	-	
	= parts	s per million	_	lows per foot No Well Instal	led	` ′		•	•	le collected mpletion
Dı F	rilling	Driller: Eichel Method:	bergers - Mike CME 75 HSA		Date	-		o Wat		2.00 ft bgs 11/30/2008

So	il B	oring Log			Boring No.: DB-7 Monitoring Well No.: N/W ant Date Started: 11/30/08							
Proje	ct:	Rohm and Haa Philadelphia, F	-	ia Plant	Date St Date Fi			 !		11/30/08 11/30/08		
Surve Locat	-	N256213.50 E2721699.50	Ground Elevation:	6.40 ft.	Inner Cas Elevation:	_		ft.		Outer Elevat	er Casing ation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_	<u>-4.6</u> -5.6	Black fine to co saturated Gray Silty CLA		edium dense,		3 3 1 2		2.8 96.2	-			
-	-3.0	End of Boring a	at 12 feet bgs				3			-		
5—										_		
_										_		
_									_			
	= part	s per million		lows per foot					-	_	collected	
bgs =	= belo	Driller: Eichel	$\frac{1}{N} = N$	Martinez	stalled <u>▼</u> = water level at completion							

										No.: N/W
Project.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin			:		10/17/ 10/17/	
Survey Location:	ocation: E2721814.80 Elevation: 5.40 ft. E									er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Dark brown to be fragments, loosed wet at 1.4 feet Saturated at 4 feet End of Boring a	eet	SAND with gra	avel and brick	Manadotte and the and			0.0 0.0 0.0	- - -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 2.5-3.5 feet
Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected										
bgs = below	Driller:Eichelb	_	o Well Install	ed <u>y</u>	▼ De _l	= v pth /Iea	to su		el at con	4.00 ft bgs 10/17/2007 1997570.00003

Soil Boring Log Boring No.: SB-67

					M	lon 	itc	ri	ing V	Vell N	lo.: N/W
Projec	`T'	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin					10/17/ 10/17/	
Survey Locati	-	Inner Casi Elevation:	_		ft.			er Casing ation: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	<u>-1.6</u>	Asphalt Dark brown to be fragments, loosed Moist at 2 feet Saturated at 3.5	feet	SAND with gr	avel and brick				0.0 0.0 0.0		Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 2.5-3.5 feet
	_	per million w ground surfac	$\frac{1}{N} = N$	lows per foot o Well Install	ed 2	<u>_</u>	= w	at	er leve	at co	e collected mpletion
	_	Driller:Eichelb Method: nspector: J. I	Livingston hford	Depth to Water: 3.50 ft bgs Date of Measurement: 10/17/2007 Project No.: 19997570.00003							

Soil Boring Log Boring No.: SB-68

					IV	ion	iitc)ľI	ng v	veii N	No.: N/W
Proje	<u></u> ጉዮ†'	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir					10/17/ 10/17/	
Surv	ey ition:	N256359.20 E2721882.90	7.20 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.	
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	<u>6.9</u>	fragments, loose	GRAVEL (crus						0.0 0.0 0.0	¥ -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet
	= parts	s per million w ground surface Driller:Eichelb	$\frac{1}{N} = \frac{N}{N}$	lows per foot to Well Install Livingston	ed 2	<u> </u>	= w	at	er leve	at co	le collected mpletion 4.00 ft bgs
		Method: nspector: J. I	Geoprobe Bridge/ M. Pitc	hford	Date	Depth to Water: 4.00 ft bgs Date of Measurement: 10/17/2007 Project No.: 19997570.00003					

S	oil B	oring Log						_		SB-6 Vell N	9 lo.: N/W	
Proj	ect:	Rohm and Haa Philadelphia, I	-		Date Sta Date Fir			:		10/17/ 10/17/		
Surv Loca	ey ation:	N256380.50 E2722015.30	Ground Elevation:	5.80 ft.	Inner Casi Elevation:	_		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
	5.5	Asphalt Dark brown to fragments, loos	olack fine-coarse e, dry-moist	e SAND with gr	avel and brick				0.0	-	Analytical soil sample collected from 0.0-2.0	
_		Saturated at 3 for	eet						0.0		Analytical soil sample collected from 2.0-3.0 feet	
5	1.8	End of Boring a	at 4 feet bgs				=- =- 			-		
-										-		
_												
	= part	s per million ow ground surfac	_	lows per foot No Well Install	ed 2	(a) ⊻			-	_	e collected mpletion	
	Driller:Eichelbergers - Mike LivingstonDepth to Water: 3.00 ft bgsDrilling Method:GeoprobeDate of Measurement: 10/17/2007Field Inspector:J. Bridge/ M. PitchfordProject No.: 19997570.00003											

Soil Boring Log Boring No.: SB-70 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/17/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 10/17/07 Survey N256300.10 Ground **Inner Casing Outer Casing** Location: E2722019.00 Elevation: 7.20 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt 6.9 Dark brown to brown fine-coarse SAND with gravel and 0.0 concrete fragments, loose, dry Analytical soil sample collected from 0.0-2.0 0.0 4.7 0.0 Black fine-coarse SAND with gravel and brick fragments, loose, moist 0.0 Analytical soil sample collected from 3.0-4.0 Ţ Saturated at 4 feet 5--0.8 End of Boring at 8 feet bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed= water level at completion bgs = below ground surface

Driller:Eichelbergers - Mike Livingston

Drilling Method: Field Inspector:

Geoprobe

J. Bridge/ M. Pitchford

Depth to Water: 4.00 ft bgs

Date of Measurement: 10/17/2007

Project No.: 19997570.00003

Notes:

ppm = parts per million
bgs = below ground surface

bpf = blows per foot

(a) = Analytical sample collected

Driller:Eichelbergers - Mike Livingston

Drilling Method: Field Inspector:

Geoprobe

J. Bridge/ M. Pitchford

Depth to Water: 4.00 ft bgs

Date of Measurement: 10/17/2007

Project No.: 19997570.00003

So	il Bo	oring Log					_			SB-7 Vell N	2 lo.: N/W	
Projec	rt'	Rohm and Haa Philadelphia, F	-		Date Sta Date Fin					10/17/ 10/17/		
Surve Locat	-	N256231.40 E2721933.80	Ground Elevation:	6.40 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	IC DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
Dark brown to black fine-coarse SAND with gravel, concrete, and brick fragments, loose, dry-moist Analytical soil sample collected from 0.0-2.0 feet 0.0 Analytical soil sample collected from 0.0-2.0 feet												
5—	2.4	Saturated at 4 fe							0.0	¥ -	Analytical soil sample collected from 3.0-4.0 feet	
Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface N/W = No Well Installed ▼ = water level at completion												
Driller:Eichelbergers - Mike Livingston Depth to Water: 4.00 ft bgs Drilling Method: Geoprobe Field Inspector: J. Bridge/ M. Pitchford Depth to Water: 4.00 ft bgs Date of Measurement: 10/17/2007 Project No.: 19997570.00003												

Soil	Во	ring Log					_			SB-7 Vell N	4 lo.: N/W
Project	•	ohm and Haa hiladelphia, F	s Philadelphi Pennsylvania	a Plant	Date Sta Date Fin					10/17/ 10/17/	
Survey Location		N256251.00 E2722161.80	Ground Elevation:	6.70 ft.	Inner Casi Elevation:	_	1	ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—	1.3	Asphalt Brown to dark	t eet on water	e SAND with w	rood, concrete,				0.0 0.0 1.5 0.0	- - -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 2.0-3.0 feet
	_	per million ground surfac	_	ows per foot o Well Install							e collected mpletion
	ling N	1ethod:	ergers - Mike I Geoprobe Bridge/ M. Pitcl				Aeas	sur	Water ement	:	4.00 ft bgs 10/17/2007 997570.00003



So	il B	oring Log					_			SB-7 Vell N	'5 lo.: N/W
Projec	`t'	Rohm and Haa Philadelphia, I	-	a Plant	Date St Date Fi					10/16/ 10/16/	
Surve Locat	-	N256262.10 E2722217.00	Ground Elevation:	5.90 ft.	Inner Cas Elevation	_		ft.	Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Gray to dark gr	el, loose, dry	=			0.0				
									1.8	-	Analytical soil sample collected from 0.0-2.0 feet
		Moist-wet at 3 i						0.9	_		
_	1.9	Saturated at 4 fo	eet			= = = = = = = = = = = = = = = = = = = =			3.6	▼ -	Analytical soil sample collected from 3.0-4.0 feet
5—		End of Boring a	at 4 feet bgs							-	
Notes:											
	_	s per million ow ground surface		lows per foot to Well Install	ed					_	e collected mpletion
		Driller:Eichelb Method: nspector: J. I	oergers - Mike I Geoprobe Bridge/ M. Pitc		Date		Лea	sur	Water ement ct No.	:	4.00 ft bgs 10/16/2007 9997570.00003

Soil Boring Log Boring No.: SB-76 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 11/20/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 11/20/07 Survey N256196.90 Ground **Inner Casing Outer Casing** Location: E2722193.50 Elevation: 7.50 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt <u>7.0</u> 0.0 CONCRETE 0.0 4.0 3 0.0 Dark brown fine-coarse SAND with gravel fragments, loose, 7 Analytical soil sample collected from 3.5-4.5 ₹ 804 4 Saturated at 4.5 feet 5 5--0.5 Analytical groundwater sample collected at 8.0 End of Boring at 8 feet bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed= water level at completion bgs = below ground surface Driller: Eichelbergers - Mike Martinez Depth to Water: 4.50 ft bgs CME 75 HSA Drilling Method: Date of Measurement: 11/20/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003

Proje	ect:	Rohm and Haa Philadelphia, F	-		Date Sta Date Fir					10/17/ 10/17/	
Surv Loca	ey tion:	N256201.40 E2722058.50	Ground Elevation:	7.00 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DESCRIPTION				SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	<u>6.7</u>	Asphalt Dark brown to l	plack fine-coarse	e SAND with g	ravel, loose, dry	=======================================			0.0		
	5.5 5.0	Asphalt		:: = :: = :: =			0.8	_	Analytical soil sample collected from 0.0-2.0 feet		
		Black fine-coar moist	se SAND with g	fragments,				0.0	_		
Saturated at 4 feet									0.0	Ţ.	Analytical soil sample collected from 3.0-4.0 feet
5	2.0	End of Boring a	at 5 feet bgs								
										_	
										_	
										_	
_	= part	s per million ow ground surfac	_	lows per foot No Well Instal	led 2				-	_	e collected mpletion
D	rilling	Driller:Eichelb	ergers - Mike Geoprobe	Livingston	Date		_		Water		4.00 ft bgs 10/17/2007

Soil E	Boring Log							No.: ing V		0 No.: N/W
Project:	Rohm and Haa Philadelphia, I	-	ia Plant	Date Sta Date Fir					11/16/ 11/16/	
Survey Location	N256159.00 E2721969.80	Ground Elevation:	7.00 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	1500 1500 1500 1500 1500 1500 1500 1500	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5 <u>2.0</u>	Asphalt Brown Clayey fragments, med CONCRETE Brown to dark land brick fragm					31 50 /2 3 2 2 7 4 2 1 4		0.0 0.0 0.0 0.0	- - -	Analytical soil sample collected from 1.0-3.0 feet
	ts per million low ground surfac	-	lows per foot No Well Install	ed :					_	le collected mpletion
	Driller: Eichelbergers - Mike Martinez Depth to Water: 3.00 ft bgs Drilling Method: CME 75 HSA Date of Measurement: 11/16/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003									

N/W = No Well Installed

= water level at completion

Driller:Eichelbergers - Mike Livingston

Drilling Method: Field Inspector:

Geoprobe J. Bridge/ M. Pitchford

Depth to Water: Date of Measurement:

Project No.:

3.00 ft bgs 10/12/2007 19997570.00003

Soil Boring Log Boring No.: SB-82

Monitoring Well No.: N/W										
Project:	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin				10/16/07 10/16/07		
Survey Location	N256085.70 E2722129.30	Ground Elevation:	6.10 ft.	Inner Casing Elevation: ft.				Outer Casing Elevation: ft.		
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Gray to dark gradry-moist Saturated at 4 for		AND with grave	el, loose,	· "我们是我们的,我们们是我们的,我们们的,我们们们的,我们们们们的,我们们们们们们们们们们		0.0	▼ -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet	
	ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface N/W = No Well Installed Ψ = water level at completion									
Driller:Eichelbergers - Mike LivingstonDepth to Water: 4.00 ft bgsDrilling Method:GeoprobeDate of Measurement: 10/16/2007Field Inspector:J. Bridge/ M. PitchfordProject No.: 19997570.00003										

Soil Boring Log Boring No.: SB-83 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 11/13/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 11/13/07 Survey N256112.80 Ground **Inner Casing Outer Casing** Location: E2722213.80 Elevation: 6.70 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt 6.4 Light brown to brown Clayey fine-coarse SAND with gravel 19 0.0 6.0 and brick fragments, medium dense, dry CONCRETE 50 Analytical soil sample collected from 0.0-2.0 /2 0.0 Aug Aug Aug 0.0 3.7 ¥ =Aug Dark brown fine-coarse SAND with gravel, medium dense, saturated at 3 feet 1.7 3 5 End of Boring at 5 feet bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed= water level at completion bgs = below ground surface Driller: Eichelbergers - Mike Martinez Depth to Water: 3.00 ft bgs Drilling Method: CME 75 HSA Date of Measurement: 11/13/2007

Project No.:

J. Bridge/ M. Pitchford

19997570.00003

Field Inspector:

Soil Boring Log Boring No.: SB-84 Monitoring Well No.: N/W												
Project: Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania					Date Sta Date Fir			:		11/13/07 11/13/07		
Survey N256048.40 Ground Location: E2722206.90 Elevation: 9.			9.20 ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
	8.9	Asphalt Light brown to and quartz fragi	D with gravel	= = = = = = = = =	6		9.2					
_	7.8		edium SAND, de			=======================================	18		0.0	-	Analytical soil sample collected from 0.0-2.0 feet	
_	6.6	Brown Clayey	fine-coarse SAN	D, medium dens	-		14 6		1.0	-	Analytical soil sample collected from 2.0-2.5 feet	
	5.7	End of Boring a	at 3.5 feet has			======================================	50 /6 ug	€1		_	Note: Groundwater not encountered	
		End of Boring a	at 5.5 feet ogs							_	chedunered	
5—										_		
_										_		
_										-		
_										_		
_										_		
	Notes:											
	ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface $N/W = No$ Well Installed Ψ = water level at completion											
	Driller: Eichelbergers - Mike Martinez Depth to Water: ft bgs Drilling Method: CME 75 HSA Date of Measurement: 11/13/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003											

Soil	Boring Log		Boring No.: SB-86 Monitoring Well No.: N/W							
Project	Date Sta Date Fir						0/18/07 0/18/07			
Survey N256026.90 Location: E2722056.70		Ground Elevation:			ner Casing evation: ft.					er Casing ation: ft.
DEPTH, ft.	(FT. ABOVE MSL)		C DESCRIPTION		LITHOLOGY		SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	2 Moist at 1.7 fe	black fine-coarso tts, dry	e SAND with gr	avel, brick, and				0.0	- ¥ -	Analytical soil sample collected from 0.0-2.0 feet
5—	Saturated at 2 End of Boring								-	Analytical groundwater sample collected at 6.0 feet
Notes: ppm = parts per million										
	Driller:Eichelbergers - Mike Livingston Depth to Water: 2.00 ft bgs Drilling Method: Geoprobe Date of Measurement: 10/18/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003									

Rohm and Haas Philadelphia Plant Date Started: 10/18/07												
Proje	ect:	Date Fir	nish	ed:			10/18/07					
Survey Location:		N256086.40 E2721946.30						ft.		Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5—	<u>-0.9</u> -1.2	Saturated at 4 fe	clayey coarse SA						0.0 0.0 0.0	¥ -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet Analytical groundwater sample collected at 8.0 feet	
ppm :	Notes: ppm = parts per million											
	Driller:Eichelbergers - Mike LivingstonDepth to Water:4.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/18/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003											

Soil Boring Log Boring No.: SB-88 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/11/07 **Project: Date Finished:** 10/11/07 Philadelphia, Pennsylvania Survey N256025.70 Ground **Inner Casing Outer Casing** Location: E2721958.80 **Elevation:** 8.20 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt 7.9 Brown to light brown to gray fine-coarse Silty SAND, 0.0 fine-coarse angular gravel, dry Analytical soil sample collected from 0.0-2.0 0.0 0.0 Moist at 2.6 feet Analytical soil sample collected from 2.5-3.5 <u>4.7</u> Ţ Brown to light brown to gray, Clayey to Silty fine-coarse SAND, fine-coarse angular gravel and trace wood fragments, saturated at 3.5 feet 4.2 End of Boring at 4 feet bgs 5 Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed bgs = below ground surface = water level at completion Driller:Eichelbergers - Mike Livingston Depth to Water: 3.50 ft bgs

Drilling Method: Geoprobe J. Bridge/ M. Pitchford Field Inspector:

Date of Measurement: 10/11/2007 Project No.: 19997570.00003

Soil Boring Log Boring No.: SB-89 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/11/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 10/11/07 Survey N255894.00 Ground **Inner Casing Outer Casing** Location: E2722149.30 Elevation: 7.90 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt 7.6 Dark gray fine-coarse Silty SAND and fine-coarse angular 0.0 GRAŬEĹ Analytical soil sample collected from 0.0-2.0 0.0 0.0 4.9 Red Silty CLAY with brick fragments, some light brown coarse sand, dry 0.0 Analytical soil sample collected from 3.0-4.0 4.0 Ţ Black fine-coarse Silty SAND with fine-coarse angular gravel, saturated at 4 feet 2.9 5 End of Boring at 5 feet bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed**▼** = water level at completion bgs = below ground surface Driller:Eichelbergers - Mike Livingston Depth to Water: 4.00 ft bgs Drilling Method: Geoprobe Date of Measurement: 10/11/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003

Soil Boring Log Boring No.: SB-90 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/11/07 **Project: Date Finished:** 10/11/07 Philadelphia, Pennsylvania N255950.40 Survey Ground **Inner Casing Outer Casing** Location: E2721900.70 **Elevation:** 8.10 ft. **Elevation:** ft. **Elevation:** ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt <u>7.6</u> 0.0 Brown grading to black fine-coarse Silty SAND with fine-medium angular gravel and trace clay, dry Analytical soil sample collected from 0.0-2.0 0.0 0.0 5.1 Light brown fine-coarse Silty SAND, dry 4.6 0.0 Dark gray to black fine-medium Silty SAND with fine-coarse Analytical soil sample collected from 3.0-4.0 angular gravel, moist Ţ feet <u>3.7</u> Black to dark grayish green Clayey fine-coarse SAND with Note: Strong petroleum intermittent wood fragments, saturated at 4 feet 5-0.1 End of Boring at 8 feet bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected

bgs = below ground surface N/W = No Well Installed

▼ = water level at completion

Driller:Eichelbergers - Mike Livingston

Geoprobe

Drilling Method:

Field Inspector: J. Bridge/ M. Pitchford

Depth to Water: 4.00 ft bgs

Date of Measurement: 10/11/2007

Project No.: 19997570.00003

					ion	IITO	orı	ng v	veii ľ	No.: N/W
Project:	Rohm and Haa Philadelphia, I	-	a Plant	Date Sta Date Fin			:		11/13/ 11/13/	
Survey Location:	N255955.10 E2721856.90	Ground Elevation:	7.50 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO			LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		ght gray Clayey Seet at 4 feet bgs				6 7 8 6 6 6 4 3		0.0 0.0 2.7 3.1	- -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet
	s per million	_	ows per foot						_	e collected
Drilling	Method:	bergers - Mike CME 75 HSA Bridge/ M. Pitc	1		De	pth Леа	to	Water rement	:	4.00 ft bgs 11/13/2007 997570.00003

Soil Boring Log Boring No.: SB-92 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/11/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 10/11/07 Survey N255851.40 Ground **Inner Casing Outer Casing** Elevation: Location: E2722023.50 Elevation: 6.70 ft. Elevation: ft. ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt with sub-base: gray fine-coarse angular gravel, dry <u>6.2</u> 0.0 Brown to red-grayish brown Sandy SILT, some clay, trace to some fine-coarse angular gravel, dry Analytical soil sample collected from 0.0-2.0 0.0 0.0 0.0 Analytical soil sample collected from 3.0-4.0 Ţ Saturated at 4 feet 1.7 Dark gray fine-coarse angular gravel, saturated 0.7 Dark gray Silty CLAY grading to Clayey fine-coarse SAND, -1.3 End of boring at 8 feet bgs Notes:

ppm = parts per million

bpf = blows per foot

(a) = Analytical sample collected

bgs = below ground surface

Field Inspector:

N/W = No Well Installed

▼ = water level at completion

Driller:Eichelbergers - Mike Livingston Drilling Method: Geoprobe

J. Bridge/ M. Pitchford

Depth to Water: 4.00 ft bgs Date of Measurement: 10/11/2007 Project No.: 19997570.00003

Soil E	Soring Log				•	_		SB-9 Vell N	3 lo.: N/W
Project:	Rohm and Haa Philadelphia, I	-		Date Sta Date Fin		l :		10/11/ 10/11/	
Survey Location:	N255868.80 E2721849.70	Ground Elevation:	6.90 ft.	Inner Casi Elevation:	•	ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Brown to light fine-medium ar Dark gray Sand moist Saturated at 3 f	ack fine-coarse a	se Silty SAND volt trace clay	vith trace fine sand			0.0	- -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 2.0-3.0 feet
	ts per million ow ground surfa	-	lows per foot No Well Install				-	_	e collected npletion
Drilling	Driller:Eichelbg Method:	pergers - Mike Geoprobe	Livingston		_		Water rement		3.00 ft bgs 10/11/2007

J. Bridge/ M. Pitchford Field Inspector:

Project No.: 19997570.00003

Soil Boring Log Boring No.: SB-94 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 11/15/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 11/15/07 Survey N255808.80 Ground **Inner Casing Outer Casing** Elevation: Location: E2721841.70 Elevation: 6.90 ft. Elevation: ft. ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** 6.6 Brown fine-coarse SAND with gravel and brick fragments, 38 0.9 very dense, dry <u>5.9</u> 14 Dark brown fine-medium SAND, very dense, dry Analytical soil sample collected from 0.0-2.0 9 0.0 Moist at 1.7 feet 8 20 0.0 23 <u>3.5</u> Dark brown fine-coarse SAND with intermittent gravel and brick fragments, very dense, moist, saturated at 4 feet 15 0.0 Analytical soil sample collected from 3.0-4.0 2.9 feet End of Boring at 4 feet bgs 5-Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed= water level at completion bgs = below ground surface Depth to Water: 4.00 ft bgs

Driller: Eichelbergers - Mike Martinez

Drilling Method: CME 75 HSA Field Inspector: J. Bridge/ M. Pitchford Date of Measurement: Project No.:

11/15/2007 19997570.00003

Soil Boring Log Boring No.: SB-98 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/5/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 10/5/07 Survey N255365.50 Ground **Inner Casing Outer Casing** Location: E2721778.80 Elevation: 11.50 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Dark brown to brown fine-coarse SAND with gravel and brick ************************************* fragments, medium dense, dry 0.0 Analytical soil sample collected from 0.0-2.0 0.0 0.0 0.0 0.0 6.5 5 Gray SILT and fine SAND, dense, dry 0.0 0.0 White to yellowish white SILT and fine SAND, loose, dry 4.2 Brownish red fine SAND, loose, moist 0.0 Analytical soil sample collected from 7.0-8.0 ¥ feet Saturated at 8 feet 2.0 Brown fine SAND, saturated

Notes:

ppm = parts per million pf = blows per foot

bgs = below ground surface N/W = No Well Installed

(a) = Analytical sample collected

▼ = water level at completion

Driller:Eichelbergers - Mike Livingston

Drilling Method:
Field Inspector:

J.

Geoprobe

J. Bridge/ M. Pitchford

Depth to Water: 8.00 ft bgs

Date of Measurement: 10/5/2007

Project No.: 19997570.00003

S	oil B	oring Log					_			SB-9 Vell N	8 lo.: N/W
Proj	ect:	Rohm and Haa Philadelphia, F	-		Date Sta Date Fir			•		10/5/0 10/5/0	
Surv Loca	ey ation:	N255365.50 E2721778.80	Ground Elevation:	11.50 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Brown fine SAI	ND, saturated							_	
15—	-0.5	End of Boring a	at 12 feet bgs			<u>(A)</u>				- -	
	= part	s per million ow ground surfac		lows per foot No Well Install	ed :					_	e collected mpletion
	Driller:Eichelbergers - Mike Livingston Drilling Method: Field Inspector: Driller:Eichelbergers - Mike Livingston Depth to Water: Barbara Summer: Depth to Water: 10/5/2007 Project No.: 19997570.00003										

S	oil B	oring Log								SB-1 Vell N	00 lo.: N/W
Proj	ect:	Rohm and Haa Philadelphia, I	-	ia Plant	Date Sta Date Fir			:		10/9/0 10/9/0	
Surv	ey ation:	N255411.50 E2721657.70	Ground Elevation:	22.40 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Dark Gray to B GRAVEL & fir	lack asphalt sub- ne-coarse SAND	-base, fine-coars , Dry	se angular				0.0		
_ _	21.4	Brown to Dk. C fine-medium an	Gray fine-mediur gular gravel, Dr	n Silty SAND, s y	ome clay &				0.0	-	Analytical soil sample collected from 0.0-2.0 feet
	19.4								0.0		
_ 		Brown fine-med	dium Silty SAN	D, some clay, D					0.0	_	
									0.0		
5—	17.4	Multi-colored (fine-coarse Silty	Brown, White, C y SAND & GRA	Greenish Brown, VEL, Moist	Gray)		The affect with the state.		0.0	_	
									0.0		
_ _							alternative alternative alternative		0.0	_	
_	_								0.0	_	
						= =			0.0		
	= part	s per million ow ground surfac		lows per foot Io Well Install	ed 2	(a) ▼			-	_	e collected mpletion
Е	Orilling	Driller:Eichelb	ergers - Mike Geoprobe	Livingston	Date		_		Water		23.00 ft bgs 10/9/2007

Project No.:

J. Bridge/ M. Pitchford

19997570.00003

Field Inspector:

S	oil B	oring Log					_		SB-1 Well N	00 lo.: N/W
Proje	JCt.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta				10/9/0	
Surv Loca	ey ition:	N255411.50 E2721657.70	Ground Elevation:	22.40 ft.	Inner Casi Elevation:	_		ft.		er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Multi-colored (fine-coarse Silty	Brown, White, G y SAND & GRA	reenish Brown, VEL, Moist	Gray)	= = = =		0.0		
_		Moist at 11 feet				= = = = = = = = = = = = = = = = = = = =		0.0	-	
						# # # # #		0.0	_	
						= = = = = = = = = = = = = = = = = = = =		0.0		
15—						+ + + + + + + + + + + + + + + + + + + +		0.0		Analytical soil sample collected from 14-15 fee:
	6.9	Brown to Orang fine-medium an	gish Brown fine- gular gravel, mo	medium silty Sa	AND, trace	# # # # # # # # # # # # # # # # # # #		0.0		
_						= = = = = = = = = = = = = = = = = = = =		0.0	_	
						= = = = = = = = = = = = = = = = = = = =		0.0	_	
_						± ± ± ± ±		0.0	_	
						# # # # #		0.0		
	= parts	s per million w ground surfac	_	ows per foot o Well Install	ed :			-	_	e collected npletion
		Method:	oergers - Mike I Geoprobe Bridge/ M. Pitc		Date		/leas	to Wate suremer oject No	ıt:	23.00 ft bgs 10/9/2007 997570.00003

Soil I	Boring Log					_			SB-10 Vell N	00 o.: N/W		
Project:	Rohm and Haa Philadelphia, I	-		Date Sta Date Fir					10/9/07 10/9/07			
Survey Location	N255411.50 : E2721657.70	Ground Elevation:	22.40 ft.	Inner Casi Elevation:	_		ft.		Oute Eleva	Casing	ft.	
DEPTH, ft.	(FI. ABOVE MSL)	STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIA		
	Brown to Orang fine-medium ar	gish Brown fine- ngular gravel, mo	medium silty Sa oist	AND, trace	= = = = = = = = = = = = = = = = = = = =			0.0	_			
					# # # # # # # # # # # # # # # # # # # #			0.0	_			
	Saturated at 23		lty SAND, trace	fine-medium	# # # #			0.0	▼ -			
5—		Greenish Gray, fine-medium Silty SAND, trace fine-medium angular gravel, Saturated End of Boring at 24 feet bgs										
									_			
									_			
Notes:												
ppm = pa	rts per million low ground surfac		lows per foot No Well Install	ed 2				-	_	collected apletion		
	Driller:Eichelb ng Method:	oergers - Mike Geoprobe Bridge/ M. Pito		Date		Леа	sure	Water ement et No.		23.00 ft bgs 10/9/2007 997570.0000	3	

Soil Boring Log Boring No.: SB-121 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/12/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 10/12/07 Survey N256098.20 Ground **Inner Casing Outer Casing** Location: E2721433.30 Elevation: 5.60 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** 5.4 Gray, fine-coarse SAND with gravel, dense, dry 0.0 Analytical soil sample collected at 0-2 feet 0.0 3.6 Dark gray, fine-coarse SAND with traces of gravel 0.0 Analytical soil sample collected at 2-3 feet \blacksquare Saturated at 3 feet 0.0 1.6 End of boring at 4 feet bgs 5-Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed= water level at completion bgs = below ground surface Driller: Eichelbergers- Mike Livingston Depth to Water: 3.00 ft bgs

Drilling Method: Geoprobe
Field Inspector: J. Bridge/ M. Pitchford

 Depth to Water:
 3.00 ft bgs

 Date of Measurement:
 10/12/2007

 Project No.:
 19997570.00003

So	oil B	oring Log					_			SB-1 Vell N	22 No.: N/W
Proje	act.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta			:		10/18/ 10/18/	
Surv Loca	ey ition:	N255997.50 E2721519.00	Ground Elevation:	6.10 ft.	Inner Casi Elevation:	ng		ft.			er Casing ration: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_	5.9	Asphalt Brown, fine-coa	arse SAND with	gravel, loose, di	y				0.0	-	Analytical soil sample collected at 0-2 feet
5—	2.6	Dark grayish br with steam rour Saturated at 4.5		medium SAND	, moist, loose,				0.0	- ¥ -	Analytical soil sample collected at 3.5-4.5 feet
_	-1.9	End of boring a							-		
	= parts	s per million ow ground surface	_	lows per foot To Well Installe					-	_	le collected mpletion
	_	Method:	oergers- Mike I Geoprobe Bridge/ M. Pitc		Date		Лea	sur	Water ement ct No.	:	4.50 ft bgs 10/18/2007 9997570.00003

Proje	ect:	Rohm and Haa Philadelphia, F	•	ia Plant	Date Si Date Fi			:		10/12/ 10/12/	
Surv Loca	ey ition:	N255905.10 E2721684.10	Ground Elevation:	5.60 ft.	Inner Cas	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	5.4	Asphalt Gray-light gray	, fine-coarse San	ody GRAVEL, d	lense, dry				0.0	_	
	3.6								0.0		Analytical soil sample collected at 0-2 feet
		Dark brown, fir	e-coarse SAND	with traces of g	ravel				0.8	_	Analytical soil sample collected at 2.5-3.5 fee
	1.6	Saturated at 3.5	feet							▼	
5		End of boring a	t 4 feet bgs							_	
										_	
										_	
_										-	
										_	
Note	s:										
_	_	s per million ow ground surfac	_	lows per foot Io Well Install	ed				-	_	e collected mpletion
		Driller:Eichelb g Method: Inspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pitc		Date		Леа	sur	Water ement	:	3.50 ft bgs 10/12/2007 997570.00003

So	il B	oring Log					_			SB-1 Vell N	28 lo.: N/W
Projec	ct:	Rohm and Haa Philadelphia, F	-		Date Sta Date Fir					10/22/ 10/22/	
Surve Locat	-	N256239.00 E2721768.00	Ground Elevation:	7.50 ft.	Inner Cas Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	7.3	Asphalt Gray, GRAVEI	fragments, dry	, loose					0.0		Note: Groundwater not encountered
	6.5	Dark brown, fir fragments, dry	ne-coarse SAND	with gravel and	l brick				0.0	_	Analytical soil sample collected at 0-2 feet
		Moist at 2.5 fee	t						0.0	_	
	3.5					•			0.0	_	
5—		End of boring a	t 4 feet bgs							_	
										-	
_										-	
										-	
										-	
	- part	s per million ow ground surfac	_	lows per foot No Well Install	ed						e collected mpletion
	_	Driller:Eichelb Method: Inspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pito		Date		Лea	sui	Water rement	:	ft bgs 10/22/2007 997570.00003

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Soil B	oring Log					_			SB-1 Vell N	29 lo.: N/W
Project:	Rohm and Haa Philadelphia, I	-	ia Plant	Date Sta Date Fir					10/22/ 10/22/	
Survey Location:	N256173.40 E2721761.50	Ground Elevation:	5.80 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5.6_	Asphalt Dark brown, fir	ne-coarse SAND	with gravel, loc	ose, dry				0.0	_	
								5.2	_	
								71.3	_	Analytical soil sample collected at 0-2 feet
1.8	Saturated at 3.5	feet						2304	.	
5—	End of boring a	at 4 feet bgs							_	
_									_	
									_	
									_	
									-	
	ts per million	_	lows per foot	ed :					_	e collected
		pergers- Mike l Geoprobe	Livingston	Date	De	pth	to	Water	:	3.50 ft bgs 10/22/2007

Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003

Soil B	oring Log								SB-1 Vell N	30 lo.: N/W	
Project:	Rohm and Haa Philadelphia, I	-	a Plant	Date Sta Date Fir					10/22/ 10/22/		
Survey Location:	N256181.90 E2721889.30	Ground Elevation:	7.00 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.	
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Saturated at 4 for End of boring a		SAND with grav	rel, loose, dry				0.0 4.5 1.8 124	- - -	Analytical soil sample collected at 0-2 feet	
	s per million ow ground surfac	_	lows per foot to Well Install	ed <u>Y</u>						e collected mpletion	
-	Driller: Eichelbergers- Mike Livingston Depth to Water: 4.00 ft bgs Drilling Method: Geoprobe Date of Measurement: 10/22/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003										

Soil B	oring Log					_			SB-1 /ell N	31 lo.: N/W
Project:	Rohm and Haa Philadelphia, I	-	a Plant	Date Sta Date Fir			ļ		10/22/ 10/22/	
Survey Location:	N256157.60 E2721914.90	Ground Elevation:	6.90 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_ 6.7	Asphalt Dark brown, fir	ne-coarse SAND	with gravel, loc	ose, dry-moist				0.0		
_								0.0	_	Analytical soil sample collected at 0-2 feet
								2.5		
	Saturated at 3 fo	eet							<u>Ā</u> -	
5	End of boring a	at 4 feet bgs							-	
ppm = part	s per million ow ground surfac	_	lows per foot lo Well Install	ed 2				-	_	e collected npletion
	Method:	bergers- Mike I Geoprobe Bridge/ M. Pitc		Date		Лea	sure	Water ement t No.	:	3.00 ft bgs 10/22/2007 997570.00003

Soil B	oring Log					_		SB-′	133 No.: N/W	
Project:	Rohm and Haa Philadelphia, I	-	a Plant	Date Sta Date Fin				10/22 10/22		
Survey Location:	N256059.10 E2721858.10	Ground Elevation:	6.20 ft.	Inner Casi Elevation:	_	f	t.		er Casing vation: ft.	
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil	WELL SCHEMATIC	WELL MATERIALS	
_ 6.0	Asphalt Dark brown, fir	ne-coarse SAND	, loose, moist				0.0)		
Analytical soil samp collected at 0-2 feet										
Saturated at 2 feet 0.0										
	Black at 3 feet						0.0)	_	
5—	End of boring a	at 4 feet bgs			<u>(c. 586)</u>			-	_	
									_	
_										
									_	
									_	
	s per million ow ground surfac	_	lows per foot To Well Install					_	le collected impletion	
Driller:Eichelbergers- Mike Livingston Depth to Water: 2.00 ft bgs Drilling Method: Geoprobe Date of Measurement: 10/22/2007										

Drilling Method: Geoprobe
Field Inspector: J. Bridge/ M. Pitchford

 Depth to Water:
 2.00 ft bgs

 Date of Measurement:
 10/22/2007

 Project No.:
 19997570.00003

Sc	oil B	oring Log		Boring No.: SB-134 Monitoring Well No.: N/W								
Proje	Rohm and Haas Philadelphia Plant Date Started: 11/15/07											
Surve Loca	-	N255996.30 E2721855.20	Ground Elevation:	7.10 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	6.9	Asphalt Brown clayey f fragments, dens	ine-coarse SANI se, moist	D with gravel ar	d brick		11		0.0			
							16 7		0.0	_	Analytical soil sample collected from 0.0-2.0 feet	
_	4.1	Saturated at 3 for	Gray to dark gray Clayey fine-coarse SAND with intermittent gravel and stream rounded clasts, medium dense, dry Saturated at 3 feet End of Boring at 3 feet bgs 5 50 Analytical soil sample collected from 2.0-3.0 feet									
5—												
_										-		
										-		
										-		
	= part	s per million	_	lows per foot Vo Well Install	ed :				-	_	e collected mpletion	
	_	Driller: Eichel Method: nspector: J. I	bergers - Mike CME 75 HSÆ Bridge/ M. Pitc	4	Date		Лea	sui	Water rement		3.00 ft bgs 11/15/2007 1997570.00003	

Soil Boring Log Boring No.: SB-135 Monitoring Well No.: N/W											
Project: Rohm and Haas Philadelphia Plant Date Started: 10/22/07 Philadelphia, Pennsylvania Date Finished: 10/22/07											
Survey Location	•	N255968.50 E2721765.80	Ground Elevation:	6.00 ft.	Inner Cas Elevation	_		ft.		Outer Casing Elevation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	<u>5.8</u> _	Asphalt Black, fine-coar loose, moist	rse SAND with §	gravel and brick	fragments,				1.5		
0.0 Analytical soil sample collected at 0-2 feet											
3.2 0.0											
	2.0	Black, fine-coar loose, moist Saturated at 3.5	•	gravel and brick	fragments,				0.0	<u>*</u>	
5—		End boring at 4	feet bgs							_	
_										_	
_										-	
										_	
NIa4-											
	_	s per million w ground surfac	-	lows per foot No Well Install	ed				-	_	e collected mpletion
	_	Driller:Eichelb Method: nspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pitc		Date		Лea	sur	Water ement	:	3.50 ft bgs 10/22/2007 1997570.00003

S	oil B	oring Log								SB-1 Vell N	36 lo.: N/W
Proje	oct.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin			:		10/22/ 10/22/	
Surv Loca	ey ition:	N255896.30 E2721727.30	Ground Elevation:	6.20 ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	6.0	Asphalt Brown-dark brok fragments dry	own, Clayey fine and intermittent	coarse SAND v	with gravel and clasts, loose,				0.0		Note: Groundwater not encountered
_									0.0	_	Analytical soil sample collected at 0-2 feet
_									0.0	_	
_	CONCRETE, dry (encountered at 4 feet)										
5		End of boring a	t 4 feet bgs							_	
_										_	
_										_	
_										_	
_											
	= parts	per million w ground surfac	_	lows per foot o Well Install					-	_	e collected npletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:ft bgsDrilling Method:GeoprobeDate of Measurement:10/22/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

So	Soil Boring Log Boring No.: SB-137 Monitoring Well No.: N/W										
Proje	Project: Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania Date Started: 10/22/07 Date Finished: 10/22/07 Survey N256049.50 Ground Inner Casing Outer Casing										
Surv Loca	ey ition:	N256049.50 E2721709.60	Ground Elevation:	6.70 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	6.5	Asphalt Brown-dark brofragments, dry	own, fine-coarse	SAND with gra	vel and brick				0.0		Note: Groundwater not encountered
_									0.0	_	Analytical soil sample collected at 0-2 feet
_	5.6										
	2.7										
	_	s per million w ground surface	_	lows per foot to Well Install	ed <u>Y</u>				-	_	e collected mpletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:ft bgsDrilling Method:GeoprobeDate of Measurement:10/22/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

S	oil B	oring Log						_		SB-1 Vell N	38 lo.: N/W
Proje	ברדי	Rohm and Haa Philadelphia, F	_	a Plant	Date Sta Date Fin			:		10/22/ 10/22/	
Surv Loca	ey ition:	N256124.40 E2721709.50	Ground Elevation:	6.70 ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	6.5	Asphalt Light brown-brodry	own, fine-coarse	SAND with gra	vel fragments,				0.0		Note: Groundwater not encountered
_	4.2	Moist at 1.5 fee	:t						0.0	-	Analytical soil sample collected at 0-2 feet
_		End of boring a	t 2.5 feet bgs							-	
5—										_	
_										-	
_										-	
_									_		
	= parts	s per million w ground surfac	_	ows per foot o Well Install						_	e collected npletion
D			Лea	sur	Water rement ct No.	:	ft bgs 10/22/2007 997570.00003				

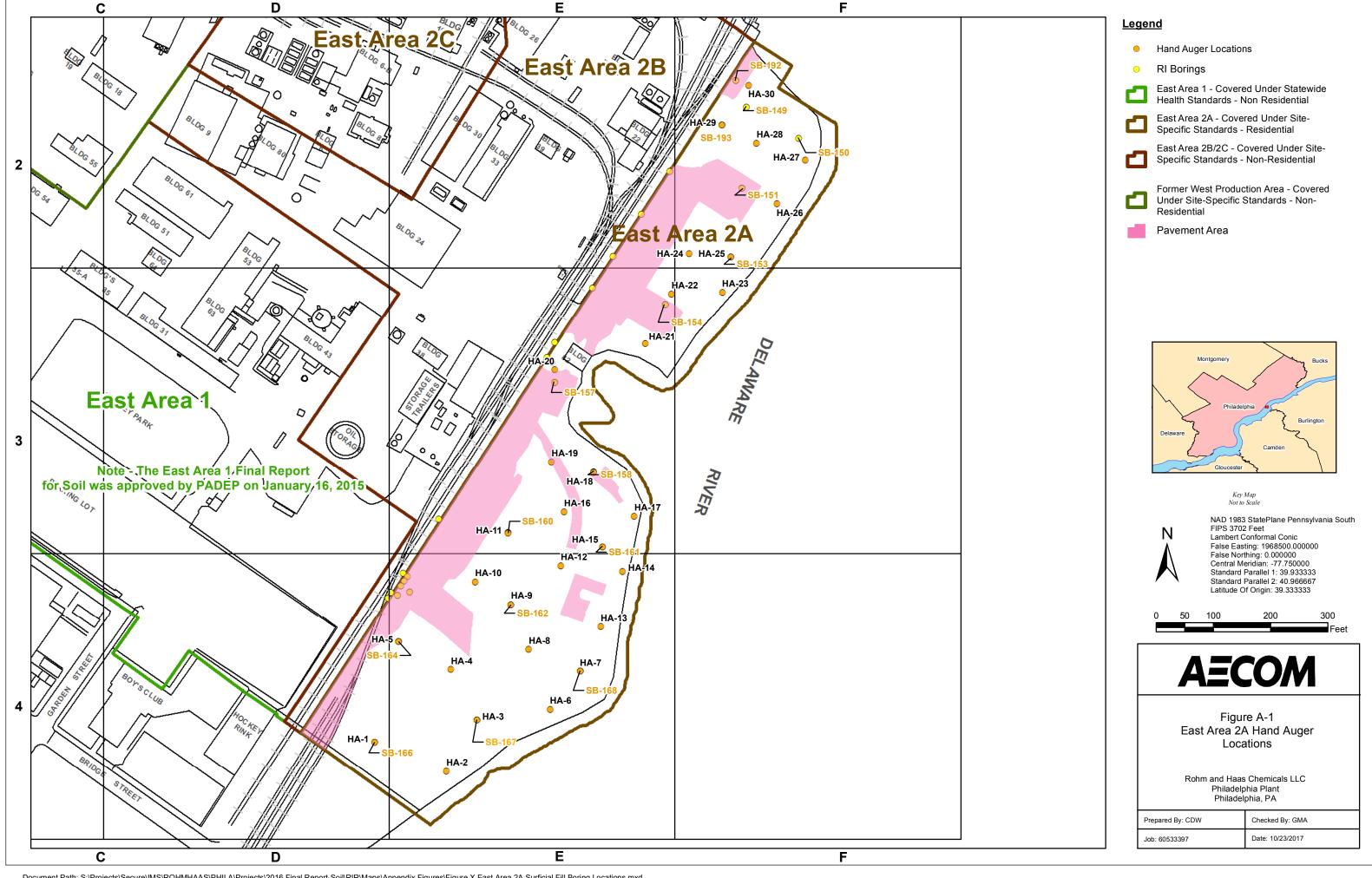
Soil E	Boring Log			Boring No.: SB-139 Monitoring Well No.: N/W							
Project:	Rohm and Haa Philadelphia, I	-	elphia Plant Date Started: 10/22/07								
Survey Location:	N256018.60 E2721605.00	Ground Elevation:	6.30 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.	
DEPTH, ft. ELEVATION		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
6.1	Asphalt Brown-dark brown-dark	own, fine-coarse	SAND with gra	vel, loose, dry				0.0			
_								0.0	_	Analytical soil sample collected at 0-2 feet	
	Moist at 2 feet Saturated at 2.5	feet					0.0	.			
2.3								0.0	-		
5—	End of boring a	t 4 feet bgs							- - -		
	Notes: opm = parts per million										
	g Method:	Geoprobe Bridge/ M. Pitc		Date		/lea	sur		:	10/22/2007 997570.00003	

S	oil B	oring Log								SB-1 Vell N	41 lo.: N/W
Project: Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania Date Started: 10/22/07 Date Finished: 10/22/07 Survey N256223.60 Ground Inner Casing Outer Casing											
	ey ition:	N256223.60 E2722274.30	Ground Elevation:	6.70 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	<u>6.5</u>	Asphalt Gray-dark brow	vn, fine-coarse SA	AND with grave	l, loose, dry				0.0		
_	Analytical soil sample collected at 0-2 feet 4.7 Dark brown, fine-coarse SAND with gravel, medium dense, wet Dark brown, fine-coarse SAND with gravel, medium dense, wet										
Dark brown, fine-coarse SAND with gravel, medium dense, wet 18.2 Analytical soil sample collected at 2-3 feet											Analytical soil sample collected at 2-3 feet
_	2.7	Saturated at 4 fe	eet						13.4	_ _	
End of boring 4 feet bgs										- -	
	= parts	s per million www ground surfac	-	ows per foot o Well Install	ed :				-	_	e collected npletion
		Method:	oergers- Mike L Geoprobe Bridge/ M. Pitcl		Date		Mea	sur	Water rement ct No.	:	4.00 ft bgs 10/22/2007 997570.00003

S	oil B	oring Log		Boring No.: SB-142 Monitoring Well No.: N/W							
Proj	ect:	Rohm and Haa Philadelphia, F	-	phia Plant Date Started: 11/12/07							
Surv Loca	ey ation:	N256206.20 E2722258.20	Ground Elevation:	7.60 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	3.7 3.6	medium dense, Dark brown fin	e-coarse SAND ium dense, mois	with gravel and			1 8 4		3.8 9.3 29 62	- - -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 2.0-4.0 feet
	= part	s per million ow ground surface	$\frac{1}{M} = \frac{1}{M}$	lows per foot No Well Install	ed :	<u>¥</u>	= v	vate	er leve	l at coi	e collected npletion 4.00 ft bgs
	Driller: Eichelbergers - Mike MartinezDepth to Water:4.00 ft bgsDrilling Method:CME 75 HSADate of Measurement:11/12/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

Soil Boring Log Boring No.: SB-144 Monitoring Well No.: N/V Rohm and Haas Philadelphia Plant Date Started: 11/12/07											
Proje	Ct.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir					11/12/ 11/12/	
Surve	-	N256201.00 E2722294.10	Ground Elevation:	7.20 ft.	Inner Casi Elevation:	_	N/	Α 1	ft.		er Casing ation: N/A ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Brown fine to c fragments, mois	oarse SAND and st	l GRAVEL witl	ı brick		Aug		4.1	_	Analytical soil sample collected from 0.0-2.0
- 5.0 CONCRETE											
Dark brown fine to coarse SAND with gravel, brick fragments and stream rounded clasts											
5—	$\begin{vmatrix} 1 & 50 \\ 1 & 2 \end{vmatrix}$ Analytical soil sample										
_		End of boring a	t 5 feet bgs				1			_	
_										-	
NI ₂ 4-	Natas										
	= parts	s per million w ground surfac	-	lows per foot to Well Install	ed 2				-	_	e collected mpletion
	_	Driller: Eichell Method: nspector: J. I	bergers - Mike CME 75 HSA Bridge/ M. Pitc	Λ	Date		Лea	sur	Water ement	:	4.00 ft bgs 11/12/2007 997570.00003

S	oil B	oring Log								SB-1 Vell N	
Project: Rohm and Haas Philadelphia Plant Date Started: 10/16/07 Philadelphia, Pennsylvania Date Finished: 10/16/07											
Surv Loca	ey ition:	N256190.50 E2722339.00	Ground Elevation:	7.50 ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	7.3	Asphalt Gray-brown, fir	ne-coarse SAND	with gravel, loo	ose, dry				0.0		
_									0.0	_	Analytical soil sample collected at 0-2 feet
_											
_											
5									0.0	_	
_	2.0	Gray, Silty CLA Saturated at 5.5	AY, medium plas	ticity, wet					0.0	▼	
_									2.9	_	Analytical soil sample collected at 6-7 feet
_	-0.5								0.0	_	
_	End of boring at 8 feet bgs										
	= part	s per million ow ground surfac	-	ows per foot o Well Install					-	_	e collected mpletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:5.50 ft bgsDrilling Method:GeoprobeDate of Measurement:10/16/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										



S	oil B	oring Log				_			SB-1 Vell N	49 No.: N/W	
Proje	JCT.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir					10/8/0 10/8/0	
Surv Loca	-	N256036.00 E2722374.80	Ground Elevation:	5.50 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	5.3	Asphalt	ayey medium-co	arse SAND wit ty, moist	h brick and				0.0		
_									0.0	-	Analytical soil sample collected at 0-2 feet
_									0.0	_	
_									0.0	_	
5—									0.0	_	
_		Saturated at 6 fo	eet						0.0	<u>*</u> -	Analytical soil sample collected at 5-6 feet
_									0.0	-	-
_	-2.5								0.0	-	
_		End of boring a	t 8 feet bgs							-	_
NI a t											
	= parts	s per million w ground surfac	_	lows per foot to Well Install	ed .					_	le collected mpletion
	_	Driller:Eichelt Method: nspector: J. I	pergers- Mike I Geoprobe Bridge/ M. Pitc		Date	_	Лea	sur	Water ement		6.00 ft bgs 10/8/2007 0997570.00003

Sc	oil B	oring Log	Boring No.: SB-150 Monitoring Well No.: N/W								
Proje	ect:	Date Sta Date Fin					10/8/07 10/8/07				
Surv Loca	_	N255982.14 E2722465.98	Ground Elevation:	5.16 ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	4.9	Asphalt	ack, medium-coa vel and brick fra	arse Clayey SAN agments, mediun	ID with n density, mois				0.0		
									0.0	_	Analytical soil sample collected at 0-2 feet
									0.0		
_		Saturated at 4 fe	eet						0.0	T -	Analytical soil sample collected at 3-4 feet
5—										_	
										_	
	-2.8									_	
_		End of boring a	t 8 feet bgs							_	
Notes	z.										
ppm =	= part	s per million ow ground surfac	_	lows per foot No Well Install					-	_	e collected mpletion
	_	Driller:Eichelb g Method: Inspector: J. I	pergers- Mike l Geoprobe Bridge/ M. Pitc			of M	1ea	sur	Water ement ct No.		4.00 ft bgs 10/8/2007 997570.00003

Proje	Date St Date Fi	arte	d:		Vell No.: N/W 10/8/07 10/8/07						
Surv Loca	ey tion:	N255893.50 E2722367.20	Ground Elevation:	5.70 ft.	Inner Cas Elevation	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	<u>5.5</u>	Asphalt Dark brown, me fragments, dens	edium-coarse S <i>A</i> e, dry-moist	ND with grave	and brick				0.0	_	
									0.0	_	Analytical soil sample collected at 0-2 feet
									0.0	_	
	_1.7	Brown, coarse Saturated at 4 fo	SAND, medium eet	density, saturate	ed				0.0	▼ -	Analytical soil sample collected at 3-4 feet
5—		Light brown at Dark brown-bla									
										-	
-	-2.3	End of boring a	t 8 feet bgs			0(400) 0400)				-	
_	= part	s per million	-	lows per foot Io Well Install	ed				-	_	e collected
Di	rilling	Driller:Eichelb g Method:			Date	De	pth	to sur	Water	: :	4.00 ft bgs 10/8/2007 997570.00003

Project	Date St	arte	d:			10/8/07 10/8/07					
-					Inner Cas Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Dark brown-bro plasticity, intern	own, medium-co nittent gravel an	arse Sandy CLA d brick fragmen	AY, dense, low tts, dry-moist	7			0.0		
									0.0	-	Analytical soil sample collected at 0-2 feet
									0.0	_	
									0.0	_	
5—									0.0	_	Analytical soil sample collected at 4-5 feet
	<u>0.9</u> _	GRAVEL Saturated at 5.5							0.0	-	
<u> </u>	1.6	F. II. : 40	C 1							-	
		End boring at 8	reet bgs							_	
		s per million w ground surface	_	lows per foot Vo Well Install	ed				-	_	e collected mpletion
	_	Driller:Eichelb Method: nspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pitc		Date		Леа	sur	Water ement		5.50 ft bgs 10/8/2007 997570.00003



Hand Auger Number: HA-25 (SB-153)

Description of surface material (0-6"): coarse to fine gravel and brown medium to fine sandy silt. Some fill type debris & trace organics.

Photo #1: HA-25 Location (20' SE of TW-47S)





Photo #2: HA-25 Surface Material



Brown, medium-coarse Sandy CLAY with intermittent gravel and brick fragments, medium density, low plasticity, moist 0.0 0.0 Analytical soil sample collected at 4-5 feet Find of boring at 8 feet bgs Notes: ppm = parts per million	Proje	Date Sta Date Fir				10/8/07 10/8/07						
Brown, coarse SAND and GRAVEL, loose, dry 5.0 Brown, medium-coarse Sandy CLAY with intermittent gravel and brick fragments, medium density, low plasticity, moist 0.0 Analytical soil samp collected at 0-2 feet 0.0 Analytical soil samp collected at 4-5 feet The collected at 4-5 feet End of boring at 8 feet bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected		-			6.50 ft.		_		ft.			-
Brown, coarse SAND and GRAVEL, loose, dry 5.0 Brown, medium-coarse Sandy CLAY with intermittent gravel and brick fragments, medium density, low plasticity, moist 0.0 Analytical soil samp collected at 0-2 feet 0.0 Analytical soil samp collected at 4-5 feet Saturated at 5.5 feet Find of boring at 8 feet bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected	DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	
Brown, medium-coarse Sandy CLAY with intermittent gravel and brick fragments, medium density, low plasticity, moist 0.0 0.0 Analytical soil samp collected at 4-5 feet Saturated at 5.5 feet -1.5 End of boring at 8 feet bgs Form = parts per million bpf = blows per foot (a) = Analytical sample collected		6.3		SAND and GRA	VEL, loose, dry					0.0		
Saturated at 5.5 feet Saturated at 5.5 feet Lotes: Some parts per million Some parts per million		5.0	Brown, medium and brick fragm	n-coarse Sandy Coents, medium do	CLAY with interensity, low plasti	mittent gravel city, moist				0.0	_	Analytical soil sample collected at 0-2 feet
Saturated at 5.5 feet Saturated at 5.5 feet -1.5 End of boring at 8 feet bgs lotes: pm = parts per million bpf = blows per foot (a) = Analytical sample collected										0.0	_	
Saturated at 5.5 feet -1.5 End of boring at 8 feet bgs fotes: pm = parts per million bpf = blows per foot (a) = Analytical sample collected	_										-	Analytical soil sample collected at 4-5 feet
End of boring at 8 feet bgs Notes: pm = parts per million			Saturated at 5.5	feet							<u>▼</u> -	
Notes: pm = parts per million bpf = blows per foot (a) = Analytical sample collected		-1.5									_	
pm = parts per million $bpf = blows per foot$ (a) = Analytical sample collected			End of boring a	t 8 feet bgs							_	
55 below ground surface 1000 100 Wen instance 1 water level at completion	pm =	= part	-	_	-	ed .				-	_	



Hand Auger Number: HA-22 (SB-154)

Description of surface material (0-6"): coarse to fine gravel, brick & concrete debris fill. Little medium to fine brown sand silt & trace organics.

Photo #1: HA-22 Location (moved to north side of asphalt pad)





Photo #2: HA-22 Surface Material



Proje	ידים	Rohm and Haa Philadelphia, F	=		Date S Date F				10/8/0 10/8/0	
Surv Loca	ey ition:	N255753.10 E2722082.10	Ground Elevation:	8.30 ft.	Inner Cas Elevatior	_	ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	_ 8.1 _	Asphalt Dark brown to be with brick fragn	black medium-conents, loose, dry	parse SAND and	I GRAVEL			0.0		
								0.0	-	Analytical soil sample collected at 0-2 feet
								0.0	-	
	4.3							0.0	-	
5		Gray, fine-medi lenses, medium	um Sandy CLA density, low pla	Y with intermitt sticity, moist	ent brown			0.0		Analytical soil sample collected at 4-5 feet
<i>-</i>		Saturated at 5.5	feet					0.0	_ 	
								0.0	_	
_	0.3							0.0	-	
_		End of boring a	t 8 feet bgs						_	

Driller:Eichelbergers- Mike Livingston

Drilling Method: Geoprobe
Field Inspector: J. Bridge/ M. Pitchford

 Depth to Water:
 5.50 ft bgs

 Date of Measurement:
 10/8/2007

 Project No.:
 19997570.00003

S	oil B	oring Log								SB-1 Vell N	56 lo.: N/W
Proje	ect:	Rohm and Haa Philadelphia, F	-	a Plant	Date S Date F					10/8/0 10/8/0	
Surv Loca	ey ition:	N255591.50 E2721987.00	Ground Elevation:	9.00 ft.	Inner Ca Elevatio	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	<u>8.8</u> <u>5.3</u>	loose, dry	AND and GRAV		fragments,				0.0 0.0 0.0 0.0 0.0 0.0 0.0	- - -	Analytical soil sample collected at 0-2 feet Analytical soil sample collected at 3-4 feet
_		End of boring 8	s feet bgs							_	
	= part	s per million ow ground surfac	_	lows per foot To Well Install	ed				-	_	e collected npletion
		Driller:Eichelb Method: Inspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pitc		Dat		Лea	sur	Water rement ct No.		4.00 ft bgs 10/8/2007 997570.00003

ELEVATION (FT. ABOVE MSL)	N255554.40 E2722039.40 Light brown-bladry, dense	Ground Elevation: STRATIGRAPHIC ck, fine-coarse S		Inner Cas Elevation	_		SAMPLES	PID Soil Screen (ppm)	Elev	er Casing ation: ft.
	Light brown-bla dry, dense				LITHOLOGY	PT (bpf)	//PLES	Soil 1 (ppm)	LL 1ATIC	WELL
_	Light brown-bla dry, dense	ck, fine-coarse S	SAND with grav		-	S	SAN	PID Screer	WELL SCHEMATIC	MATERIALS
_				el fragments	,			0.0		
								0.0	_	Analytical soil sample collected at 0-2 feet
-								0.0	_	
3.7	Brown-light bro	wn, Clayey fine	SAND with gra	 	s,///			0.0	_	
	loose, moist Saturated at 5 fe	et						0.0	<u>*</u> _	Analytical soil sample collected at 4-5 feet
								0.0	-	
_								0.0	-	
-0.3	End of boring at	8 feet bgs							_	
lotes: pm = parts p gs = below	per million ground surfac	_	ows per foot o Well Install	ed				-	_	le collected mpletion



Hand Auger Number: HA-20 (SB-157)

Description of surface material (0-6"): coarse to fine gravel, little brown medium to fine sand. Refusal at 3" asphalt under area.

Photo #1: HA-20 Location (moved north all asphalt at original location)





Photo #2: HA-20 Surface Material



S	oil B	oring Log					_			SB-1 Vell N	58 lo.: N/W
Proje	⊇Ct'	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta			1		10/5/0 10/5/0	
Surv	ey ition:	N255396.50 E2722107.10	Ground Elevation:	7.30 ft.	Inner Cas Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Dark brown-gramoist, dense	y, fine-coarse SA	AND with grave	el fragments,				0.0		
_						•			0.0	_	Analytical soil sample collected at 0-2 feet
_									0.0	_	
	3.3								0.0	_	
5		Brown-light bromoist, dense	own, fine-coarse	SAND with gra	vel fragments	, •			0.0		
_						•			0.0	_	
_									0.0	_	
_	-0.7	Saturated at 8 fe	eet						0.0	¥ -	Analytical soil sample collected at 7-8 feet
End of boring at 8 feet bgs											
	= parts	s per million w ground surfac		lows per foot To Well Install	ed				-	_	e collected npletion
		Driller:Eichelb Method: nspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pitc		Date		Лea	sure	Water ement et No.:	:	8.00 ft bgs 10/5/2007 997570.00003



Hand Auger Number: HA-18 (SB-158)

Description of surface material (0-6"): coarse to fine gravel, some medium to fine sand & trace silt. Refusal at 4.5" asphalt under area.

Photo #1: HA-18 Location

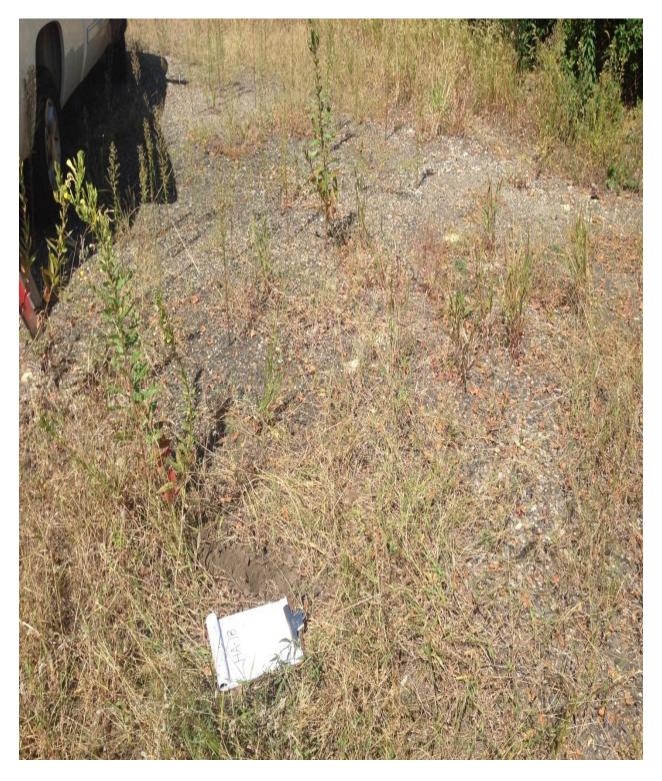




Photo #2: HA-18 Surface Material



S	oil B	oring Log					_			SB-1 Vell N	59 lo.: N/W
Proje	ect:	Rohm and Haa Philadelphia, F	-	ia Plant	Date Sta Date Fir					10/10/ 10/10/	
Surv Loca	ey ition:	N255428.80 E2721881.20	Ground Elevation:	9.10 ft.	Inner Casi Elevation:	_	,	ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	8.1		e angular GRAV gray Clayey SIL RAVEL, dry	•					0.0	-	Analytical soil sample collected at 0-2 feet
		ine-medium G	KAVEL, dry						0.0	-	confected at 0-2 feet
	_ <u>5.6</u> .	Gray-brown fin	e-coarse Silty SA	AND with grave	el, dry				0.0	-	
5		Saturated at 6 fe	eet						0.0	<u> </u>	Analytical soil sample collected at 5-6 feet
_	1.1									-	
_		End of boring a	t 8 feet bgs							-	
	= part	s per million ow ground surface		lows per foot No Well Install	ed			-		_	e collected
	_	Driller:Eichelb Method: nspector: J. I	pergers- Mike I Geoprobe Bridge/ M. Pitc		Date		/leas	sure	Vater ment	:	6.00 ft bgs 10/10/2007 997570.00003

S	oil B	oring Log				_			SB-1 Vell N	60 lo.: N/W	
Proj	ect:	Rohm and Haa Philadelphia, F	•	ia Plant	Date Sta Date Fin					10/5/0 10/5/0	
Surv Loca	ey ation:	N255290.50 E2721958.30	Ground Elevation:	7.20 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Dark brown-bla fragments, dry,	ck, fine-coarse S dense	SAND with grav	el and brick				0.0		
_									0.0	-	Analytical soil sample collected at 0-2 feet
									0.0	_	
									0.0	_	
5										_	
-	-0.8	Saturated at 7 fo	eet							<u> </u>	Analytical soil sample collected at 6-7 feet
_		End of boring 8							-		
	= part	s per million ow ground surfac	_	lows per foot No Well Install					-	_	le collected mpletion
	_	Driller:Eichelb g Method: Inspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pitc				Лea	sur	Water ement ct No.	:	7.00 ft bgs 10/5/2007 9997570.00003

S	oil Bo	oring Log					_			SB-1 Vell N	61 lo.: N/W
Proje	oct.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir			:		10/5/0 10/5/0	
Surv Loca	ey ition:	N255266.40 E2722122.80	Ground Elevation:	9.40 ft.	Inner Casi Elevation:	_		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Brown-light bro fragments, dry,	own, fine-coarse dense	SAND with gra	vel and brick				0.0		
_									0.0	_	Analytical soil sample collected at 0-2 feet
									0.0		
5									0.0	_	
_									0.0	_	
									0.0	_	
_	1.4	Saturated at 8 fe	eet			•			0.0	<u>Ā</u> -	Analytical soil sample collected at 7-8 feet
_		End of boring a	t 8 feet bgs							_	
	= parts	s per million w ground surfac	_	ows per foot o Well Install	ed 2				-	_	e collected npletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:8.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/5/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										



Hand Auger Number: HA-15 (SB-161)

Description of Fill (0-6"): overgrown weedy area. Dark brown medium to fine sand and wood debris, broken down mulch. Some gravel & crushed concrete. Adjacent to asphalt roadway.

Photo #1: HA-15 Location





Photo #2: HA-15 Surface Material



S	oil B	oring Log					_			SB-1 Vell N	62 lo.: N/W
Proje	oct.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta					10/5/0 10/5/0	
Surv Loca	ey ition:	N255164.60 E2721963.10	Ground Elevation:	7.80 ft.	Inner Cas Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Dark brown-bla fragments, loos	ick, fine-coarse S e- medium densit	AND with grav y, dry	rel and brick				0.0		
_									0.0	_	Analytical soil sample collected at 0-2 feet
									0.0		
_											
5	<u>2.8</u>								0.0		
_		Light brown-bla fragments, loos	ack, fine-coarse S e- medium densit	SAND with gravey, dry	vel and brick				0.0	_	
_									0.0	_	
_	-0.2	Saturated at 8 fo	eet						0.0	<u> </u>	Analytical soil sample collected at 7-8 feet
End of boring at 8 feet bgs										_	
_											
	= parts	s per million w ground surfac	_	ows per foot o Well Install	ed				-	_	e collected npletion
	_	Method:	oergers- Mike L Geoprobe Bridge/ M. Pitcl		Date		Лea	sur	Water ement et No.		8.00 ft bgs 10/5/2007 997570.00003

S	Soil Boring Log Boring No.: SB-163 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant Date Started: 10/5/07										
Proje	PCT'	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin			ı,		10/5/0 10/5/0	
Surv Loca	ey ation:	N255194.60 E2721741.50	Ground Elevation:	8.60 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Black-light brown fragments, loose	wn, fine-coarse S e, dry	SAND with grav	el and brick				0.0		
						•			0.0	_	Analytical soil sample collected at 0-2 feet
_											
_	4.9	Light brown, Si	Ity CLAY with i	ntermittent stream	am rounded				0.0	_	
5		clasts and mottl	ing, medium plas	sticity, medium	density, moist				0.0	_	
	2.9 _	Gray coarse GR Saturated at 6 fe							0.0	▼ -	Analytical soil sample collected at 5-6 feet
_	End of boring at 8 feet bgs										
	= parts	per million w ground surfac	-	ows per foot o Well Install					-	_	e collected npletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:6.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/5/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

Soi	ΙВ	oring Log					_			SB-1 Vell N	64 No.: N/W
Projec	t.	Rohm and Haa Philadelphia, F	-	ia Plant	Date St Date Fi			:		10/4/0 10/4/0	
Survey Location	•	N255099.60 E2721765.60	Ground Elevation:	8.00 ft.	Inner Cas Elevation	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
-	7.8	Gravel Brown-black, fi	ine-coarse micac s, dense, dry	eous SAND wit	h gravel and					-	Analytical soil sample collected at 0-2 feet
	2.5 2.3 1.8	fragments, mois	arse SAND and							- -	Analytical coil cample
	0.0	Saturated at 7.2	5 feet							▼ -	Analytical soil sample collected at 6-7 feet
		End of boring a	t 8 feet bgs							-	
-	_	s per million ow ground surface	_	lows per foot No Well Install	ed				-	_	le collected mpletion
	_	Driller:Eichelt Method: Inspector: J. I	oergers- Mike I Geoprobe Bridge/ M. Pitc		Date		Лea	sur	Water ement ct No.	:	7.25 ft bgs 10/4/2007 0997570.00003



Hand Auger Number: HA-5 (SB-164)

Description of surface material (0-6"): coarse to fine crushed rock & gravel asphalt & brick, some 0-0.5" brown medium to fine sand & loam. Some trace organics, dry & loose.

Photo #1: HA-5 Location





Photo #2: HA-5 Surface Material



S	oil B	oring Log					_			SB-1 Vell N	66 No.: N/W
Proje	ect:	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin					10/3/0 10/3/0	
Surv Loca	ey ition:	N254924.12 E2721724.15	Ground Elevation:	8.09 ft.	Inner Casii Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Brown-black, fi fragments, dens	ne-coarse SANE ee, dry) with gravel an	d brick				0.0		
_									0.0	_	Analytical soil sample collected at 0-2 feet
_						•			0.0	_	
_						•			0.0	_	
5						•			0.0		
_	<u>2.1</u>					•			0.0	_	Analytical soil sample collected at 5-6 feet
_		Dark brown, fir brick fragments	ne Clayey SAND , wet, medium d	with intermitte ensity	nt gravel and				0.0	_	
_	0.1	Saturated at 8 for	eet						0.0	<u> </u>	
_		End of boring a	t 8 feet bgs							_	
	= part	s per million ow ground surfac	_	lows per foot To Well Install					-	_	le collected mpletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:8.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/3/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										



Hand Auger Number: HA-1 (SB-166)

Description of Surface Material (0-6"): Brown coarse to fine gravel (50%), with medium to fine sand (50%), trace organics, crushed stone & asphalt.

Photo #1: HA-1 Location





Photo #2: HA-1 Surface Material



Soil	Boring Log				_		.: SB g Well	-167 No.: N/W	
Project:	Rohm and Haa Philadelphia, I	•		Date Sta Date Fir				10/3 10/3	
Survey Location	N254963.40 E2721902.70	Ground Elevation:	7.00 ft.	Inner Casi Elevation:	_	1	t.		iter Casing evation: ft.
DEPTH, ft. ELEVATION	(FT. ABOVE MSL)	STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil	Screen (ppm) WELL	WELL MATERIALS
	Brown-black, fi fragments, dens	ine-coarse SANI se, dry	O with gravel an	d brick			0	.0	
	Moist at 1.5 fee	et					0	.0	Analytical soil sample collected at 0-2 feet
							0	.0	
							0	.0	
5—							0	.0	
							0	.0	
	Saturated at 7 fo	aat			•		0	.0 y	Analytical soil sample collected at 6-7 feet
-1.									_
_	End of boring a	t 8 feet bgs							_
Notes:	rts per million	hnf = h	lows per foot		(a):	= A	 	ical sam	ple collected
	elow ground surface	_	No Well Install	ed :			-		completion
	Driller:Eichelbng Method: I Inspector: J. 1	oergers- Mike I Geoprobe Bridge/ M. Pito		Date	_	leas	to Wasurem	ent:	7.00 ft bgs 10/3/2007 19997570.00003



Hand Auger Number: HA-3 (SB-167)

Description of surface material (0-6"): brown coarse to fine gravel (2"), asphalt, some coarse to fine sand; hard, dry, trace organic roots. 1" grass/weed patch. Refusal hard at 5.5" asphalt.

Photo #1: HA-3 Location. Location 100' from fence; 110' from HA-2





Photo #2: HA-3 Surface Material



S	Boring No.: SB-168 Monitoring Well No.: N/W										
Project: Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania			Date Sta Date Fin			:		10/4/07 10/4/07			
Surv Loca	ey ition:	N255048.22 E2722083.53	Ground Elevation:	7.72 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Dark brown-bla fragments, dry	ck, fine-coarse S	SAND with grav	el and brick				0.0		
_						•			0.0	_	Analytical soil sample collected at 0-2 feet
						•			0.0	_	
_						•			0.0	_	
5—		Moist at 5 feet							0.0	_	Analytical soil sample collected at 6-7 feet
_	-0.3	Saturated at 7 fe	eet						0.0	<u> </u>	confected at 6-7 feet
_		End of boring a	t 8 feet bgs							_	
	= parts	s per million w ground surface		ows per foot o Well Install					-	_	e collected mpletion
	_	Method:	oergers- Mike I Geoprobe Bridge/ M. Pitch				Леа	sui	Water rement ect No.	:	7.00 ft bgs 10/4/2007 997570.00003



Hand Auger Number: HA-7 (SB-168)

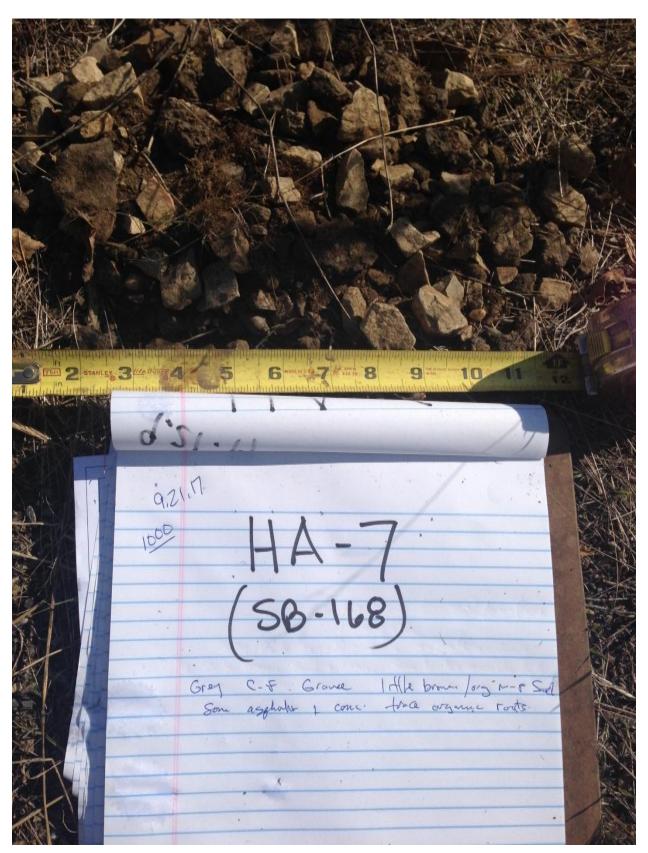
Description of surface material (0-6"): gravel; little brown/organic medium to fine soil. Some asphalt & concrete. Trace organic roots.

Photo #1: HA-7 Location





Photo #2: HA-7 Surface Material



Project:		Soil Boring Log						Boring No.: SB-192 Monitoring Well No.: N/W								
	Date Sta Date Fin				11/14/07 11/14/07											
Survey N256082.70 Ground Location: E2722356.10 Elevation: 6.80 ft.		Inner Casi Elevation:	_	fí	t.	Outer Casing Elevation: ft.										
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS							
<u>6.6</u> _	Asphalt Brown to dark to and brick fragm	prown Clayey fin ents, medium de	ne-coarse SANE	O with gravel	=	14 17 12	7.3	-	Analytical soil sample collected from 0.0-2.0 feet							
<u>4.8</u> _	Dark brown me plasticity, dry	dium-coarse San	dy CLAY, med	lium dense, low	= = =	17 3 12 6	8.5	-								
5—						6 3 3	low rec	-								
_	Saturated at 6 fe	eet				5 3 9 5	137	<u>Ā</u> -	Analytical soil sample collected from 5.0-6.0 feet							
-1.2	End of Boring a	at 8 feet bgs				3		-								
	s per million w ground surfac	-	lows per foot o Well Install				-	_	le collected mpletion							



Project No.:

J. Bridge/ M. Pitchford

19997570.00003

Field Inspector:



Hand Auger Number: HA-30 (SB-192)

Description of surface material (0-6"): gray coarse to fine gravel & cinders (little fines). Caution tape observed at 5.5" stop advancing.

Photo #1: HA-30 Location





Photo #2: HA-30 Surface Material



Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania Irvey N256004.60 Cation: E2722332.40 Ground Elevation: 6.00 ft. STRATIGRAPHIC DESCRIPTION OF THE PROPERTY OF THE		nish sing	ed:	t.		/07
STRATIGRAPHIC DESCRIPTION: 6.00 ft.	Elevation	ı: 				er Casing
		HOLOGY	Œ.		Outer Casing Elevation: ft.	
Drawn to doub heavy Claver CAND with a		<u>=</u>	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS
Brown to dark brown Clayey SAND with g fragments, medium dense, dry	avel and brick		5 6	0.0		Analytical soil sample collected from 0.0-2.0 feet
Dark brown Clayey SILT with intermittent medium dense, moist Note: glass fragments at 4 feet	gravel fragments,		5 5 4	0.0	-	
Saturated at 4 feet			2 woh	0.0	<u> </u>	Analytical soil sample collected from 3.0-4.0 feet
0.0 End of Boring at 6 feet bgs			1	0.0	-	
					-	
					-	
otes: m = parts per million				-	_	le collected mpletion

Driller: Eichelbergers - Mike Martinez
Drilling Method: CME 75 HSA
Field Inspector: J. Bridge/ M. Pitchford

 Depth to Water:
 4.00 ft bgs

 Date of Measurement:
 11/14/2007

 Project No.:
 19997570.00003



Hand Auger Number: HA-29 (SB-193)

Description of surface material (0-6"): coarse to fine gravel, concrete, and brick with large 4" brick pieces. Little brown medium to fine silty sand with some organics/roots and concrete debris.

Photo #1: HA-29 Location

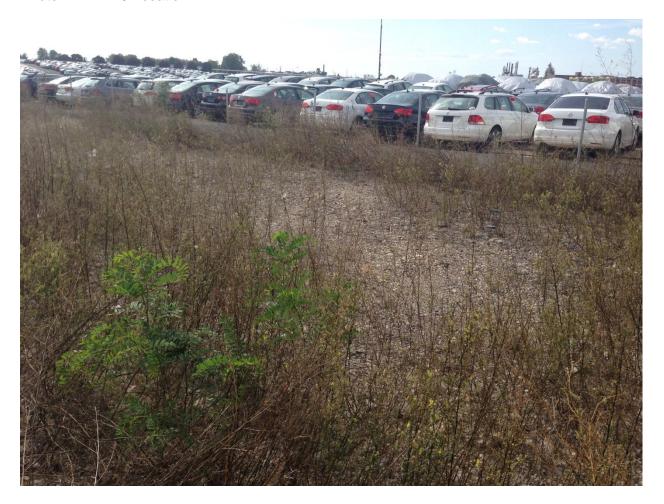




Photo #2: HA-29 Surface Material





Hand Auger Number: HA-2

Description of surface material (0-6"): Dark brown coarse to fine gravel & asphalt broken rock, with little sand. Hard, dry, refusal at 4" asphalt.

Photo #1: HA-2 Location





Photo #2: HA-2 Surface Material





Description of surface material (0-6"): brown coarse to fine sand, some coarse to fine gravel & asphalt. Loam soil trace organics dry & hard.

Photo #1: HA-4 Location





Photo #2: HA-4 Surface Material





Description of surface material (0-6"): gray/black gravel; coarse to fine & asphalt crushed. Little dark brown sand & loam. Some brick & concrete fill.

Photo #1: HA-6 Location. 30' from fence.





Photo #2: HA-6 Surface Material





Description of surface material (0-6"): gray & black coarse to fine gravel; some brown medium to fine sand & asphalt, hard & dry.

Photo #1: HA-8 Location





Photo #2: HA-8 Surface Material





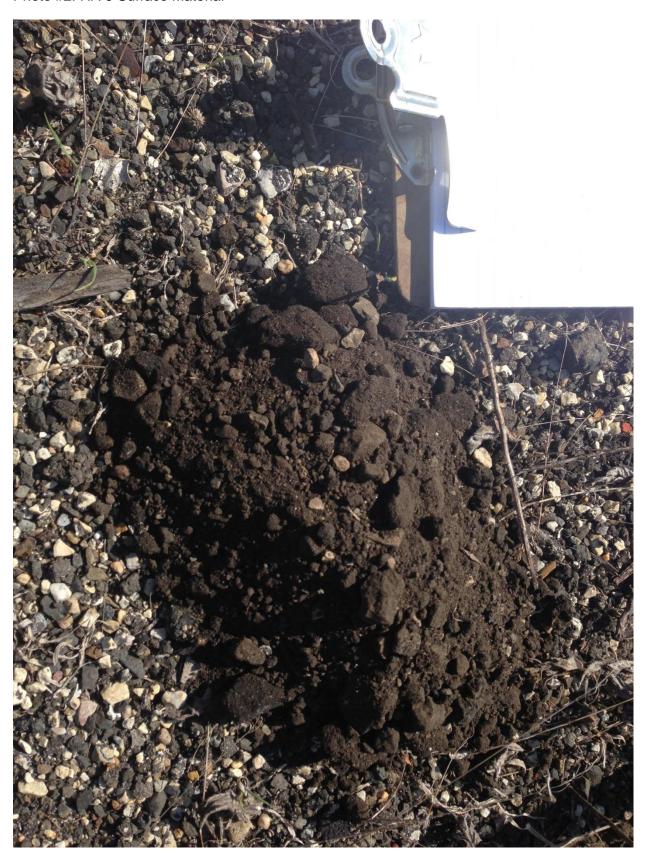
Description of surface material (0-6"): coarse to fine gravel & asphalt fill. Little medium to fine brown sand, some brick & concrete fill, hard & moist looser at 4"-6".

Photo #1: HA-9 Location





Photo #2: HA-9 Surface Material





Description of surface material (0-6"): brown coarse to fine silty sand with coarse to fine gravel fill inch. Brick & asphalt, loose, dry & trace organics.

Photo #1: HA-10 Location





Photo #2: HA-10 Surface Material





Description of surface material (0-6"): coarse to fine gravel, asphalt & brown sand (fill), some trace organics.

Photo #1: HA-11 Location

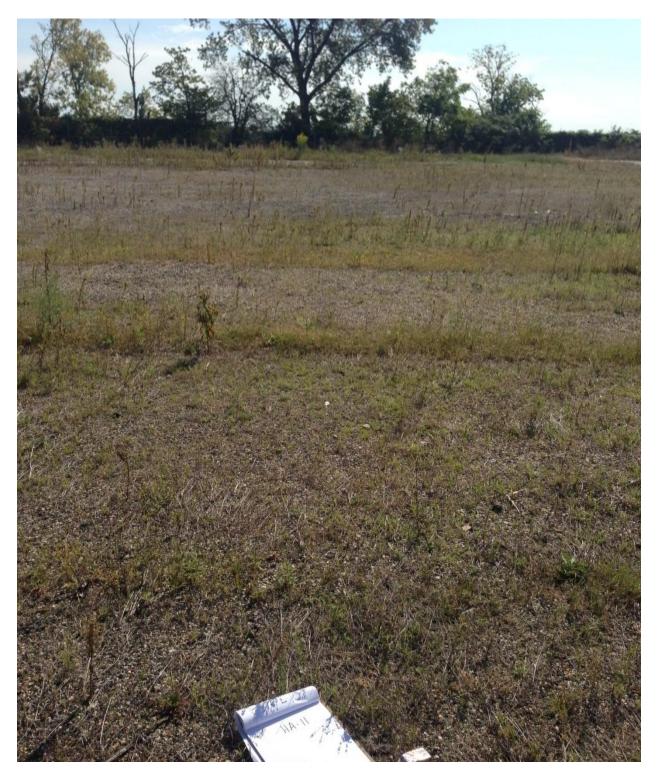
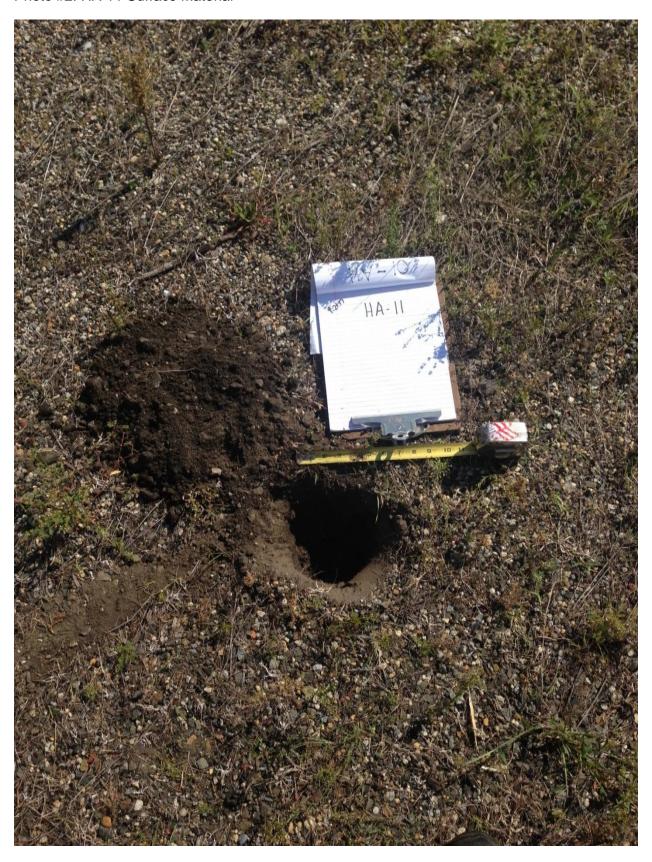




Photo #2: HA-11 Surface Material





Description of surface material (0-6"): dark brown medium to fine sand, some coarse to fine gravel & asphalt, trace organics and silt.

Photo #1: HA-12 Location

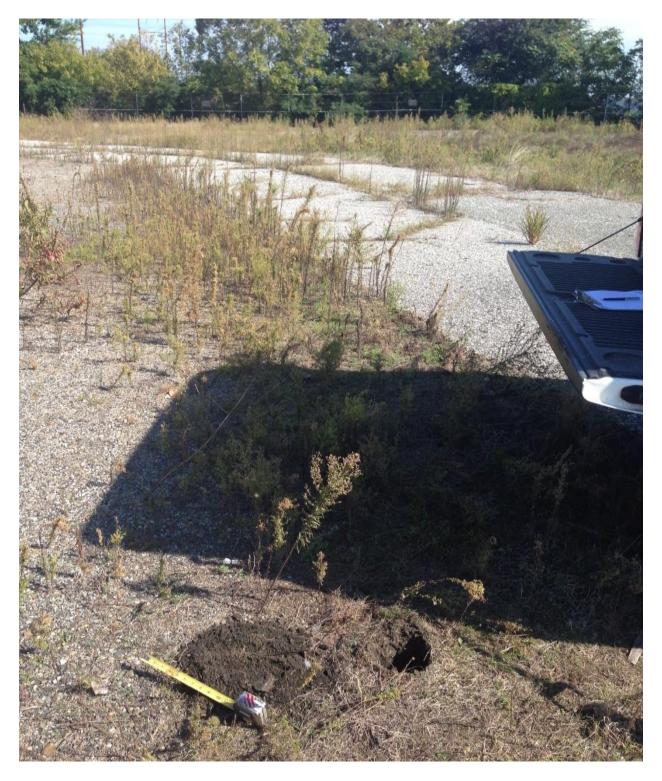




Photo #2: HA-12 Surface Material





Description of surface material (0-6"): coarse to fine gravel & fill, little brown medium to fine sand, trace silt & loam organics.

Photo #1: HA-13 Location





Photo #2: HA-13 Surface Material





Description of surface material (0-6"): gray coarse to fine gravel & concrete debris fill, little brown silty sand, hard & dry. Non-plastic, refusal at 5.5" concrete.

Photo #1: HA-14 Location





Photo #2: HA-14 Surface Material





Description of surface material (0-6"): brown medium to fine sand, some coarse to fine gravel, little silt trace organics.

Photo #1: HA-16 Location (across asphalt roadway from HA-15).





Photo #2: HA-16 Surface Material





Description of surface material (0-6"): coarse to fine gravel fill, some brown medium to fine silty sand & organics; hard & dense.

Photo #1: HA-17 Location





Photo #2: HA-17 Surface Material





Description of fill (0-6"): coarse to fine gravel, some brown medium to fine sand & little silt, dry/dense.

Photo #1: HA-19 Location





Photo #2: HA-19 Surface Material





Description of surface material (0-6"): coarse to fine gravel & concrete debris. Some brick little brown medium to fine sand. Trace silt & organics.

Photo #1: HA-21 Location (north 2A, south side of pad near cove)





Photo #2: HA-21 Surface Material





Description of surface material (0-6"): coarse to fine gravel with some concrete, debris (fill), little silty fines, sand trace organics.

Photo #1: HA-23 Location (along fence of north 2A section)





Photo #2: HA-23 Surface Material





Description of surface material (0-6"): coarse to fine gravel, some concrete debris with medium to fine brown sand; little silt with some organic roots.

Photo #1: HA-24 Location

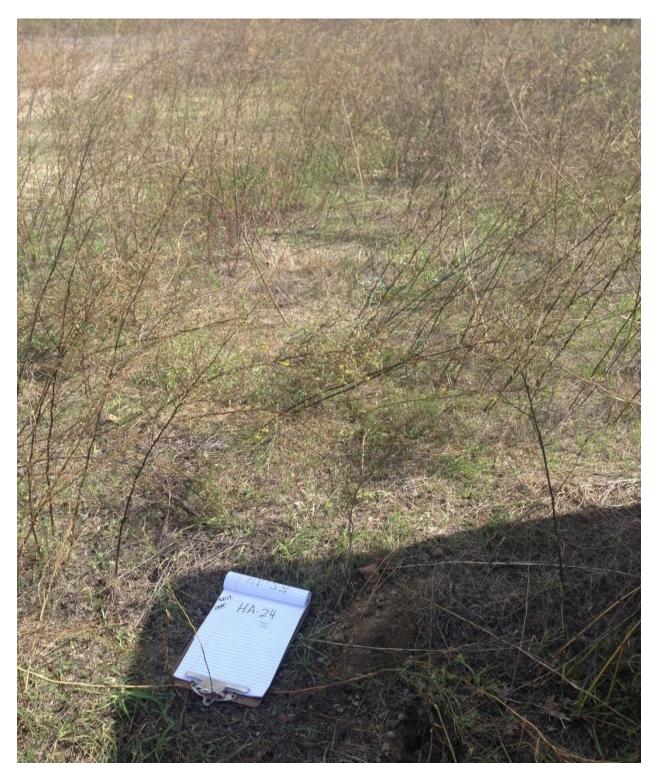




Photo #2: HA-24 Surface Material





Description of surface material (0-6"): brown medium to fine silty sand, some medium to fine gravel trace organics.

Photo #1: HA-26 Location (north 2A section along fence)





Photo #2: HA-26 Surface Material





Description of Surface Material (0-6"): Coarse to fine gravel & brick with large 4" cobble-sized broken brick, some brown medium to fine sandy silt loose trace organics, dense.

Photo #1: HA-27 Location (20' SE of TW-46S)





Photo #2: HA-27 Surface Material





Description of surface material (0-6"): brown coarse to fine silty sand and coarse to fine gravel with concrete & brick debris, trace organics.

Photo #1: HA-28 Location





Photo #2: HA-28 Surface Material



S	oil B	oring Log			Boring No.: SB-194 Monitoring Well No.:						
Proje	ect:	The Dow Chem Philadelphia, P			Date Started: 12/1 Date Finished: 12/1						
Surv	ey ition:	N255007.20 E2721605.10	Ground Elevation:	8.10 ft.	Inner Casii ft. Elevation:					Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Dk. Brown f-c S	SAND, w/ brick é	k gravel frags (N	Moist)				0.0	-	
_	6.1 5.9	Red BRICK fra Brown fine sand	gs (Moist) ly micacous CLA	 _Y, w/ brick frag	s (Wet)				0.0	-	
_									0.0	_	
5	3.1	Brown fine sand	ly micacous CLA	Y, w/ brick frag	s (Saturated)				0.0	▼ –	
_	_ <u>1.6</u> .	Black m-c SAN	D (Saturated)			1 100 100 100 100 100 100 100 100 100 1				_	
_											
_	-1.7 -1.9		End of Bori	ng 10' bgs						-	
	= parts	s per million w ground surfac	_	ows per foot o Well Installe	ed <u>y</u>				-	sample at com	collected
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620I MSP / JTB		Date	of M	leas	sur	Water: ement: ct No.:	1	5.00 ft bgs .2/10/2008 98083.00003

SB-195	
No.	
URS	

So	oil Bo	oring Log			Boring No.: SB-195 Monitoring Well No.:								
Proje	rct.	The Dow Chem Philadelphia, P			Date Sta Date Fir					12/10/08 12/10/08			
Surve	-	N255020.30 E2721654.50	Ground Elevation:	7.50 ft.	Inner Casi Elevation:	_		ft.		Outer Eleva	Casing tion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_		Asphalt Gray f-c ang. Gl Whitish Tan coa	RAVEL (Dry)	:t)					0.0	-			
	_ <u>0.2</u> .	Dk. Brown clay	ey SAND, w/ ang	g. gravel & brick	frags (Dry)				0.0				
_	$-\frac{5.0}{4.8}$		ey SAND, w/ brid ND w/ small roun		st)				0.0				
_									0.0	_			
5—	<u>2.9</u> -1.5	Brown m-c SAN	ND w/ small roun	ded gravel (Satu	irated)				0.0	▼ -			
	-2.3	Dk. Gray m-c S.	AND, w/ ang. gra										
	= parts	per million w ground surface		ows per foot o Well Installe	ed				-	sample	collected pletion		
	_	Driller: Method: Conspector:	Eichelbergers Geoprobe 6620I MSP / JTB		Date		1ea	sur	Water: ement: ct No.:	1	5.00 ft bgs 12/10/2008 198083.00003		

Soil B	oring Log			Boring No.: SB-196 Monitoring Well No.:							
Project:	The Dow Chem Philadelphia, P			Date Sta Date Fin	8 8						
Survey Location:	N255037.60 E2721630.40	Ground Elevation:	7.80 ft.	Inner Casir Elevation:	ng	ft.	ı	Outer Casing Elevation: ft.			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SP1 (bpt) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_	Dk. Brown f-c S	SAND, w/ gravel	& brick frags (N	Moist)			0.0	_			
_							0.0	_			
_							0.0	_			
<u>3.3</u> . 2.8	Dk. Brown f-c S	SAND, w/ gravel	& brick frags (V				0.0	.			
5 2.8	Dk. Brown f-c S	AND, w/ gravel	& brick frags (S	aturated)				-			
_								_			
-2.0		End of Bori	ng 10' bgs					_			
	s per million ow ground surface	-	ows per foot o Well Installe					sample	collected pletion		
_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620I MSP / JTB	OT		of Me	easui	Water: rement: ect No.:		5.00 ft bgs 12/10/2008 998083.00003		

So	il Bo	oring Log		Boring No.: SB-197 Monitoring Well No.:								
Projec	CT.	The Dow Chem Philadelphia, P			Date Sta Date Fir					12/10/09 12/10/09		
Surve Locat	-	N254984.30 E2721626.90	Ground Elevation:	7.30 ft.	Inner Casi Elevation:	_		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
-	- <u>7.0</u> - - <u>6.4</u> - - <u>6.1</u> -	Asphalt Gray f-c GRAV Brown med. SA Dk. Brown med	ND (Moist)	 ded gravel (Wet					0.0	-		
_	4.3	Brown to Lt. Brogravel (Moist)	own med. SAND	Ow/intermittent	rounded				0.0	-		
5—		Brown to Lt. Br gravel (Saturated Dk. Red & Gray	1)						0.0	▼		
	parts	per million w ground surface	_	lows per foot To Well Installe	ed				-	sample at com	collected pletion	
	_	Driller: Method: Caspector:	Eichelbergers Geoprobe 6620 MSP / JTB		Date	_	leas	sur	Water: ement: ct No.:	1	5.00 ft bgs 12/10/2008 998083.00003	

So	oil Bo	oring Log		Boring No.: SB-198 Monitoring Well No.:							
Proje	Ct.	The Dow Chem Philadelphia, P		,	Date Started: 12/10/09 Date Finished: 12/10/09						
Surve	-	N254957.50 E2721670.60	Ground Elevation:	7.30 ft.	Inner Casir Elevation:	nner Casing Elevation: ft.					Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_	6.7	Black m-c SAN Dk. Brown silty		I 					0.0	-	
_	5.3	Brown m-c SAN	ND (Moist)						0.0	_	
_	3.3	Brown m-c SAN	JD w/ fine ang. g	ravel (Saturated	_				0.0	▼ -	
5—	$-\frac{2.5}{2.3}$		Refusal at						0.0	_	
_										_	
_										-	
	= parts	per million w ground surface		lows per foot Io Well Installe						sample at com	collected pletion
	_	Driller: Method: C	Eichelbergers Geoprobe 6620 MSP / JTB				1eas	sur	Water: ement: ct No.:		4.00 ft bgs 12/10/2009 998083.00003

SB-199	
No.	
URS	

Soil B	oring Log			Boring No.: SB-199 Monitoring Well No.:							
Project:	The Dow Chem Philadelphia, P			Date Sta Date Fin			12/10/08 12/10/08	12/10/08 12/10/08			
Survey Location:	N254998.60 E2721685.50	Ground Elevation:	7.50 ft.	Inner Casii Elevation:	ng	ft		Outer Elevat	Casing ion: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_ 7.2		D, w/ ang. gravel n pink SILT to co		rounded	0000		0.0	_			
	Dk. Brown m-c	SAND w/ ang. g	ravel (Moist)				0.0	-			
$\frac{4.5}{4.3}$		ND w/ ang. grave i-c SAND, w/ ang					0.0				
5 2.5	Brown clayey m	a-c SAND, w/ ang	g. gravel (Satura	 ted)			0.0	<u>Ā</u> —			
1.5 1.3		Refusal a	ut 6' bgs					-			
								-			
								_			
	s per million ow ground surface	_	lows per foot To Well Installe	ed <u>s</u>			-	sample of	collected bletion		
_	Driller: Method: Onspector:	Eichelbergers Geoprobe 66201 MSP / JTB		Date	of M	easu	Water: rement: ect No.:	1	5.00 ft bgs 2/10/2008 98083.00003		

Proje	ect.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta	No.: N/W 07 07						
Surv Loca	ey ation:	N255742.40 E2721933.90	Ground Elevation:	6.40 ft.	Inner Casi Elevation:	_	ft		Outer Casing Elevation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
		Dark brown to b	brown fine-coars brown medium S brown medium S brown medium S brown medium S	AND, very loos	e, moist		Ref Aug 1 2 1 2 1 2 1 1 1 1 1	0.0 0.0 0.0	- - -	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet		
Note:		per million	bpf = bl	ows per foot		(a)	= An	alytical	- sampl	e collected		

Driller: Eichelbergers - Mike Martinez

Drilling Method: CME 75 HSA J. Bridge/ M. Pitchford Field Inspector:

Depth to Water: 4.00 ft bgs 10/10/2007 Date of Measurement: Project No.: 19997570.00003

Soil Boring Log Boring No.: SB-96

Monitoring Well No.: N/W

Proje	ect.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta	arte	d:	mig v	10/11/07 10/11/07			
Surv	ey ation:	N255641.10 E2721837.00	Ground Elevation:	9.40 ft.	Inner Casi Elevation:	_	fí		Outer Casing Elevation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
5—	8.4 _ 6.4 4.4 3.4 1.4	Gray fine to coa GRAVEL, dry Light brown and SAND, trace measured gravel, n Brown fine to c coarse round gravel, n	oarse Silty SAN	and fine-mediu w brown fine-m vel, dry ace clay, trace f	m angular edium Silty ine-coarse ace fine to			0.0 0.0 0.0 0.0 0.0 0.0	-	Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 7.0-8.0 feet		
	= parts	s per million w ground surface	-	ows per foot o Well Install				-	_	le collected mpletion		
	_	Driller:Eichelb Method: nspector: J. I	ergers - Mike I Geoprobe Bridge/ M. Pitc		Date	of N	1eası	Water rement ect No.	:	8.00 ft bgs 10/11/2007 9997570.00003		

So	oil B	oring Log		Boring No.: SB-96 Monitoring Well No.: N/W							
Proje	oct.	Rohm and Haa Philadelphia, F	•	a Plant	Date Sta Date Fin					10/11/0 10/11/0	
Surv Loca	ey ition:	N255641.10 E2721837.00	Ground Elevation:	9.40 ft.	Inner Casi Elevation:	Inner Casing Elevation: ft.					r Casing ation: ft.
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_	-2.6	Gray to light gra	ayish brown San	dy CLAY, trace	silt, saturated					_	
_ _ 15—		End of Boring a	t 12 feet bgs							-	
Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected											
	_	s per million w ground surfac	-	ows per foot o Well Install						_	e collected npletion
	_	Driller:Eichelb Method:	Geoprobe				Леа	sur	Water ement	:	8.00 ft bgs 10/11/2007 997570 00003

Soil Boring Log Boring No.: SB-97 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/10/07 **Project: Date Finished:** 10/10/07 Philadelphia, Pennsylvania Survey N255486.30 Ground **Inner Casing Outer Casing** Location: E2721847.50 Elevation: 16.20 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Fine-Coarse GRAVEL, dry <u>15.7</u> 0.0 Brown to light brown fine-coarse Silty SAND, fine-coarse angular gravel, dry Analytical soil sample collected from 0.0-2.0

Light brown to light gray to brown fine-medium Silty SAND, some clay 3'-4', trace fine-medium round gravel, dry 0.0 Moist at 3 feet 0.0 0.0 11.2 Light reddish mauve Sandy SILT, trace clay, trace fine-medium angular gravel, grading to fine-medium Silty SAND, trace clay, moist 0.0 0.0 0.0 8.2 Light brown to mauve to brown fine-medium Silty SAND, trace clay, Moist 0.0 0.0 Notes:

0.0

(a) = Analytical sample collected

▼ = water level at completion

Depth to Water:

Project No.:

Date of Measurement:

bpf = blows per foot

Driller:Eichelbergers - Mike Livingston

Geoprobe

J. Bridge/ M. Pitchford

N/W = No Well Installed

14.00 ft bgs

10/10/2007

19997570.00003

ppm = parts per million

Drilling Method:

Field Inspector:

bgs = below ground surface

14.7

Soil Boring Log Boring No.: SB-97

Monitoring Well No.: N/W

Proje	net:	Rohm and Haa	s Philadelph	ia Plant	Date Started: 10/10/07							
-10]6		Philadelphia, F	Pennsylvania		Date Fir	nish	ed	:		10/10/07		
Surv	ey ition:	N255486.30 E2721847.50	Ground Elevation:	16.20 ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)			C DESCRIPTION		LITHOLOGY	SPT (bpf)		PID Soil Screen (ppm)	WELL	WELL MATERIALS	
15—	0.2	Light brown to trace clay, Mois Saturated at 14 End of Boring a	feet	fine-medium S	ilty SAND,				0.0 0.0 0.0	- -	Analytical soil sample collected from 13.0-14.0 feet	
	= parts	s per million w ground surfac	_	lows per foot No Well Install	ed <u>Y</u>					_	le collected mpletion	
	_	Driller:Eichelb Method: nspector: J. I	ergers - Mike Geoprobe Bridge/ M. Pito		Date		Леа	ısu	Water rement ect No.	:	14.00 ft bgs 10/10/2007 0997570.00003	

Soil Boring Log Boring No.: SB-99 Monitoring Well No.: N/W Rohm and Haas Philadelphia Plant **Date Started:** 10/10/07 **Project:** Philadelphia, Pennsylvania **Date Finished:** 10/10/07 Survey N255498.56 Ground **Inner Casing Outer Casing** Location: E2721676.35 Elevation: 17.57 ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) ₩. SAMPLES WELL DEPTH, STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt/sub-base: gray to black fine-coarse angular GRAVEL of and grayish brown fine-coarse SAND, dry Note: Groundwater not encountered 0.0 16.6 Analytical soil sample collected from 0.0-2.0 Brown clayey fine to medium SAND, trace fine-medium angular and round gravel, moist 0.0 0.0 0.0 13.6 End of Boring at 4 feet bgs 0.0 Note: Macrocore sampler stuck in bore hole 4'-8', unable to retrieve due to broken threads 5

Notes:

ppm = parts per million bp bgs = below ground surface N/

bpf = blows per footN/W = No Well Installed

(a) = Analytical sample collected

▼ = water level at completion

Driller:Eichelbergers - Mike Livingston

Drilling Method: Field Inspector:

Geoprobe

J. Bridge/ M. Pitchford

 Depth to Water:
 ft bgs

 Date of Measurement:
 10/10/2007

 Project No.:
 19997570.00003

So	oil Bo	oring Log					_		SB-99 Vell N	9A o.: N/W
Proje	Ct'	Rohm and Haa Philadelphia, F	-	ia Plant	Date Sta Date Fir				12/5/07 12/5/07	
Surve Locat	-	N255507.80 E2721753.20	Ground Elevation:	22.10 ft.	Inner Casi Elevation:	_	f	t	Outer Eleva	r Casing tion: ft.
DЕРТН, ff.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	21.8	Asphalt Brown fine-coa gravel, trace bri	rse Silty SAND, ck fragments, m	some fine-coars edium dense, dr	se angular y		14	0.0	-	
	20.1		rse Clayey SAN ck fragments, m dium Clayey SA				5 2 1	0.0		
	<u> 18.1</u>	Brownish red to fine-coarse angu	o brown fine-coa ular GRAVEL, v	rse Silty SAND very dense, dry	and	= = =	1 2	0.0	_	
5—	16.1						11	0.0		
_		Multi-colored (I fine-coarse Silty very dense, dry	brown, reddish b y SAND and find	orown, greenish e-coarse angular	brown, white) GRAVEL,		30	0.0	_	
_							42 36 30 25	0.0	-	
Notes						±	26	0.0		
ppm =	parts	s per million w ground surfac	_	lows per foot Io Well Install	ed :				sample	collected apletion
Dr	illing	Driller: Eichell Method:	bergers - Mike CME 75 HSA		Date		_	o Water urement		9.00 ft bgs 12/5/2007

Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003

S	oil Bo	oring Log					_		SB-9 Well I	99A No.: N/W	
Proje	ect.	Rohm and Haa Philadelphia, F	ıs Philadelphia Pennsylvania	Plant	Date Sta Date Fir				12/5/ 12/5/		
Surv Loca	ey ation:	N255507.80 E2721753.20	Ground Elevation:	22.10 ft.	Inner Casi Elevation:	_	1	t.	Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_	_ 11.1_	very dense, dry	orown, reddish bro y SAND and fine-co rse Silty SAND, truse, dry			= = = = = = = = = = = = = = = = = = = =	28 7 12 16	0.0			
_		Moist at 12 feet				+ + + + + + + + +	17 15 17	0.0			
_		Trace fine-medi	um round gravel				18 22 14	0.0			
15—						+ + + + + + + + + + + + + + + + + + + +	9	0.0	_	Analytical soil sample collected from 14.0-15.	
_		No gravel					543	0.0			
							3	0.0			

Notes:

ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface N/W = No Well Installed Ψ = water level at completion

Driller: Eichelbergers - Mike Martinez

Drilling Method: CME 75 HSA

Field Inspector: J. Bridge/ M. Pitchford

Saturated at 19 feet

End of Boring at 20 feet bgs

 Depth to Water:
 19.00 ft bgs

 Date of Measurement:
 12/5/2007

 Project No.:
 19997570.00003

0.0

0.0

 $\underline{\blacktriangledown}$

Asphalt 21.7 Sub-hase, Gray to Black fine-coarse GRAVEL angular & fine-coarse GRAVEL angular & fine-coarse GRAVEL angular & fine-coarse Glavey SAND, trace mottling, Dry Gray to Brown standy CLAY grading to Brown fine-coarse clayey SAND, trace mottling, Dry 17.2 Multi-colored (brown, gray, reddish brown, greenish brown) fine-coarse silty SAND & fine-coarse angular GRAVEL, Dry 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Project:	Rohm and Haa Philadelphia, I	-		Date St Date Fi			:		10/9/0 10/9/0		
Asphalt 21.7 21.2 Sub-base, Gray to Black fine-coarse GRAVEL angular & fine-coarse SAND, Dry Gray to Brown sandy CLAY grading to Brown fine-coarse clayey SAND, trace mottling, Dry 0.0	-			22.20 ft.		_		ft.		_		
21.7 21.2 Sub-base, Gray to Black fine-coarse GRAVEL angular & fine-coarse SAND, Dry Gray to Brown sandy CLAY grading to Brown fine-coarse clayey SAND, trace mottling, Dry 5 17.2 Multi-colored (brown, gray, reddish brown, greenish brown) fine-coarse silty SAND & fine-coarse angular GRAVEL, Dry 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	DEPTH, ft.	(TI. ABOVE MOL)	STRATIGRAPH	IC DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
Gray to Brown sandy CLAY grading to Brown fine-coarse clayey SAND, trace mottling, Dry 0.0 0.0 0.0 17.2 Multi-colored (brown, gray, reddish brown, greenish brown) fine-coarse silty SAND & fine-coarse angular GRAVEL, Dry 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0		7Sub-base, Gray	to Black fine-co	parse GRAVEL	angular &	· · · =			0.0		Note: Groundwater no encountered	
Multi-colored (brown, gray, reddish brown, greenish brown) fine-coarse silty SAND & fine-coarse angular GRAVEL, Dry 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	21								0.0	_	Analytical soil sample collected from 0.0-2.0 feet	
Multi-colored (brown, gray, reddish brown, greenish brown) fine-coarse silty SAND & fine-coarse angular GRAVEL, Dry 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0									0.0	_		
Multi-colored (brown, gray, reddish brown, greenish brown) fine-coarse silty SAND & fine-coarse angular GRAVEL, Dry 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0									0.0	_		
Multi-colored (orown, gray, reddish brown, greenish orown) fine-coarse silty SAND & fine-coarse angular GRAVEL, Dry 0.0 0.0 0.0 0.0 0.0 0.0 0.0	517	2			,-,				0.0	_		
		Multi-colored (fine-coarse silty	brown, gray, red SAND & fine-	ldish brown, gre coarse angular (enish brown) GRAVEL, Dry	=			0.0	_		
						=======================================			0.0	_		
						=======================================	-		0.0	_		
						=======================================			0.0	_		
Notes:						=======================================	- -		0.0			
bpm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface $N/W = No$ Well Installed Ψ = water level at completion		-	_	-	ed				-	_		

So	oil Bo	oring Log					_			SB-1 Vell N	01 lo.: N/W
Proje	JCT.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin					10/9/0 10/9/0	
Surv Loca	-	N255461.90 E2721723.50	Ground Elevation:	22.20 ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Multi-colored (I fine-coarse silty	brown, gray, redo SAND & fine-c	lish brown, gree oarse angular G	enish brown) RAVEL, Dry				0.0	_	
_						= = = =			0.0	_	
_						======================================			0.0	_	
_	<u>8.2</u>	Brown to Orang angular gravel,	gish Brown fine-1	medium silty SA	AND, trace fine	= =			0.0	_	
15—		angulai gravei,	Diy			T			0.0	_	Analytical soil sample collected from14.0-15.0 feet
_	6.2					+ + +			0.0	_	Note: Trouble removing
_		End of Boring a	tt 16 feet bgs							-	Note: Trouble removing tooling from bore hole, driller concerned about tools becoming stuck.
_										-	
	= parts	per million w ground surfac	-	ows per foot o Well Install					-	_	e collected npletion
	_	Method:	oergers - Mike I Geoprobe Bridge/ M. Pitcl		Date o		Лea	sur	Water ement et No.:	:	ft bgs 10/9/2007 997570.00003

S	oil Bo	oring Log					_		SB-1 Vell N	02 lo.: N/W
Proj	יז אב	Rohm and Haa Philadelphia, I	-	a Plant	Date Sta Date Fir				10/10/ 10/10/	
Surv Loca	ey ition:	N255542.80 E2721659.70	Ground Elevation:	21.50 ft.	Inner Casi Elevation:	_	f	t		er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	21.0	Asphalt Sub-base, gray	to black fine-coa	rse angular GR				0.0		
_	_20.5_		ND, dry fine-coarse Silty , trace clay, dry					0.0	_	Analytical soil sample collected from 0.0-2.0 feet
						+ + +		0.0		
_								0.0	_	
	16.5					# # # #		0.0		
5—	10.5_	Multi-colored (fine-coarse Silty	brown, gray, red y SAND and fine	dish brown, gree-coarse angular	enish brown) GRAVEL, dr	y=		0.0	_	
_						* * * *		0.0		
_						# # # #		0.0	_	
		Trace clay				# # # #		0.0	_	
	11.5					+ + + +		0.0		
	s: = parts	s per million w ground surface	-	lows per foot o Well Install	ed :			-	_	e collected npletion
		Method:	oergers - Mike I Geoprobe Bridge/ M. Pitc		Date		leas	o Wate uremen ject No	t:	19.00 ft bgs 10/10/2007 997570.00003

S	oil B	oring Log					_	No.: ring V		02 No.: N/W
Proj	ect:	Rohm and Haa Philadelphia, F	-		Date St Date Fi				10/10/ 10/10/	
Surv	ey ation:	Inner Cas Elevation	_		t.		er Casing ation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPH	IC DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Brown fine-med and rounded gra	dium Silty SAN avel, dry	D, some fine-co	arse angular	± ± ± ± ± ± ± ±		0.0	_	
_	9.5	D 5	Ji Cile CAN	D, some fine-co		+ + +		0.0	_	
_		gravel, dry	ululii Siity SAN	D, some mie-co	arse angulai	+ + + + + + + + + + + + + + + + + + + +		0.0	_	
						‡ ‡ ‡ ‡ ‡		0.0	_	
15						T + + + + + + + + + + + + + + + + + + +		0.0	_	Analytical soil sample collected from 14.0-15.0 feet
_						= + = + = +		0.0	_	
_						+ + + + + + + + + + + + + + + + + + + +		0.0	_	
_						F + + + + + + + + + + + + + + + + + + +		0.0	_	
		Saturated at 19	feet			± ± ± ± ±		0.0	¥ -	
	1.5	End of Boring a	at 20 feet bgs			# # #				
	= part	s per million ow ground surfac	_	olows per foot No Well Install	ed			-	_	le collected mpletion
	_	Driller:Eichelb Method: Inspector: J. I	oergers - Mike Geoprobe Bridge/ M. Pita		Date		/leas	o Water uremen ject No	t <u>:</u>	19.00 ft bgs 10/10/2007 0997570.00003

Proje	סרני.	Rohm and Haa	_		Date Sta	Monitoring Well No.: No.: No.: No.: No.: No.: No.: No.:						
		Philadelphia, F	Pennsylvania	1	Date Fin	ish	ed:		10/10/07			
Surv Loca	ey ition:	N255616.00 E2721712.30	Ground Elevation:	16.80 ft.	Inner Casi Elevation:	er Casing ation: ft.						
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPH	IIC DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
	16.3	Asphalt Sub-base gray i	 fine-coarse and	ular GRAVEL a	nd fine-coarse	·::=		0.0				
_	<u> 15.8</u>	SAND, dry), trace fine-med				0.0	-	Analytical soil sample collected from 0.0-2.0 feet		
_								0.0	_			
								0.0	_			
5	<u> 11.8</u>							0.0	_			
_		rounded clasts,	medium dense,	th gravel fragme moist	nts and stream			0.0	_			
_						= = = = = = = =		0.0	_			
_						= = = = = = = = = =		0.0	-			
_	8.3	Reddish brown moist	poorly graded i	medium SAND,	medium dense,			0.0	-			
								0.0				

Driller:Eichelbergers - Mike Livingston

Drilling Method: Field Inspector:

Geoprobe
J. Bridge/ M. Pitchford

Depth to Water: 15.00 ft bgs
Date of Measurement: 10/10/2007

Project No.: 19997570.00003

S	oil B	oring Log					_			SB-1 Vell N	03 lo.: N/W	
Proj	CCI.	N255616.00 Ground E2721712.30 Elevation: 16.80 ft. Reddish brown poorly graded medium SAN moist A.1		a Plant	Date Sta Date Fin				10/10/07 10/10/07			
Surv Loca	ey ation:			16.80 ft.	Inner Casi Elevation:	ng	1	ft.			er Casing ation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		Reddish brown moist	poorly graded m	edium SAND, 1	medium dense,				0.0	_		
_	4.1								0.0	_		
_	3.8	\clasts, moist			1	=			0.0	_		
15		Saturated at 15	feet						0.0	<u>*</u> _	Analytical soil sample collected from 14.0-15 feet	
_	0.8	End of Boring	at 16 feet bgs							_		
_										_		
_										_		

Notes:

ppm = parts per million bpf = blows per foot

bgs = below ground surface N/W = No Well Installed

(a) = Analytical sample collected

▼ = water level at completion

Driller:Eichelbergers - Mike Livingston

Drilling Method:
Field Inspector:

J. 1

Geoprobe
J. Bridge/ M. Pitchford

Depth to Water: 15.00 ft bgs

Date of Measurement: 10/10/2007

Project No.: 19997570.00003

S	oil B	oring Log					_			SB-1 Vell N	04 lo.: N/W
Proj	ect:	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin					10/12/ 10/12/	
Surv Loca	ey ation:	N255768.70 E2721685.40	Ground Elevation:	6.30 ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	CDESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	_ <u>5.8</u>	Asphalt Brown fine-coa	rse SAND with 0	GRAVEL, dry		=======================================			0.0		
_						=======================================			0.0	_	Analytical soil sample collected from 0.0-2.0 feet
_		Wet at 2 feet				= = = = = = = = = = = = = = = = = = =			0.0	_	
_	2.3	Saturated at 3.5	feet			= = = = = = =			0.0	T	Analytical soil sample collected from 2.5-3.5 feet
		End of Boring a	at 4 feet bgs								
5										_	
_										-	
_										-	
_										_	
_										_	
	= part	s per million ow ground surface	_	lows per foot o Well Install					-	_	e collected npletion
	_	Method:	oergers - Mike l Geoprobe Bridge/ M. Pitc				Лea	sur	Water ement	:	3.50 ft bgs 10/12/2007 997570.00003

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Soil Boring Log	Boring No.: SB-190
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	ect:	Philadelphia, P	ennsylvania		Date Fir	nishe	ed:			10/10/07		
Surv Loca	ey ition:	N256331.10 E2720644.00	Ground Elevation:	8.00 ft.	Inner Casi Elevation:	_		ft.			r Casing ation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	NOTES	
_	7.8		to coarse SANE	-	RAVEL, dry				30.1	_		
_	6.0	Black, fine-coar GRAVEL	and fine- coarse	e angular				581	_			
Black, fine-coarse clayey SAND and fine- coars									92.9	<u> </u>		
Black, fine-medium angular GRAVEL, wet Product encountered at 4 feet										_		
_	0.0				2002000				_			
_		End of boring at	t 8 feet bgs							_		

bgs = below ground surface

N/W = No Well Installed \mathbf{Y} = water level at completion

Driller: Eichelbergers- Mike Livingston

Drilling Method: Geoprobe J. Bridge/ M. Pitchford Field Inspector:

Depth to Water: 4.00 ft bgs 10/10/2007 Date of Measurement: 19997570.00003 Project No.:

-191
SB
No.
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Soil Boring Log Boring No.: SB-191

Project: Rohm and Haas Philadelphia Plant Philadelphia, Pennsylvania Date Si									10/10/07 10/10/07			
Survey Location	•	N256348.40 E2720647.50	Ground Elevation:	7.80 ft.	Inner Casii Elevation:	ng		ft.			er Casing ation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	NOTES	
	7.6 6.8 5.8 4.8	Brown-gray, fin GRAVEL Black, fine-coar GRAVEL, mois Dark gray-brown	n, Silty CLAY and see Silty SAND are clay, saturated	ND and fine-cond fine- coarse and fine- medium	angular				0.0 0.0 2886 236	- - -	Analytical soil sample collected at 0-2 feet Analytical soil sample collected at 2-3 feet	
Notes:	-0.2	End of boring at	8 feet bgs							-		
_	_	s per million ow ground surface	_	ows per foot o Well Installe	ed '				-	_	e collected npletion	
	_	Driller: Eichelb Method: nspector: J. I	ergers- Mike L Geoprobe Bridge/ M. Pitch		Date	of M	Ieas	ur	Water: ement: ct No.:		4.00 ft bgs 10/10/2007 997570.00003	

So	oil Bo	ring Log			_				/ SB-292 o.: TW-54S		
Proje	MT.	Γhe Dow Chem Philadelphia, P			Date Started: 2/2/09 Date Finished: 2/2/09						
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—		Dk. Brown to G (Saturated)	ray f-m silty SANI ray f-m silty SANI Gray silty CLAY, swood debris around	o and f-c angul	ar GRAVEL				0.0 0.0 0.0		Flush Mount Casing Concrete Bentonite Hole Plug Seal #1 Sand 0.10 Slot Pipe
	= parts	per million v ground surface	bpf = blowne N/W = No	ws per foot Well Installe	ed				-	_	e collected npletion
	_	Driller: Method:	Eichelbergers JTB / MC		Date	_	1ea	sure	Water: ement: ct No.:		5.00 ft bgs 9998083.00003

Soil E	Soring Log			Boring No.: HP-1 / SB-292 Monitoring Well No.: TW-54S							
Project:	The Dow Che Philadelphia	nemical Company a, PA	Date S Date F					2/2/09 2/2/09			
Survey Location:	N E	Ground Elevation: ft.	Inner Cas Elevation	_		ft.		Outer Casing Elevation: ft.			
DEPTH, ft. ELEVATION		STRATIGRAPHIC DESCRIPT	ION	LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
	Gray micace (Saturated)	eous silty CLAY, med. density,	med. plasticity,					-			
15 _ _ _		End of Boring 15' bgs						-			
	ts per million ow ground sur	oot stalled					sample at com	collected pletion			
Drillin Field	Date		1ea	sur	Water: ement: ct No.:		5.00 ft bgs 998083.00003				

Sc	oil B	oring Log					_			HP-2 / Vell No	SB-282 o.:		
Proje	ect:	The Dow Chem Philadelphia, P			Date Sta					12/23/08 12/23/08			
Surve	-	N	Ground		Inner Casir	-					Casing		
Loca	tion:	E	Elevation:	ft.	Elevation:	evation: ft.				Elevation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
		Grass & Organi											
		Dk. Brown sand	ly SILT & f-c ang.	GRAVEL (Dry	·)	# #			0.0	_			
						+++++++++++++++++++++++++++++++++++++++			0.0				
_		Gray & Brown	silty CLAY, w/ org	g. mtr. (Dry)		‡ ‡ ‡			0.0				
						± ±			0.0	-			
						+++++++++++++++++++++++++++++++++++++++			0.0	_			
5—						++			0.0	_			
						+ + +			0.0	-			
						+			0.0	_			
_						+++++++++++++++++++++++++++++++++++++++				-			
_						++			0.0	-			
						+			0.0	<u> </u>			
	= parts	s per million w ground surfac		ws per foot Well Installed						sample at com	collected pletion		
D	rillina	Driller:	Eichelbergers		Date o				Water:		0.00 ft bgs		
		nspector:	MSP / JTB		Date)1 IV			et No.:		569313.00002		

Soil B	oring Log		Boring No.: HP-2 / SB-282 Monitoring Well No.:							
Project:	The Dow Chen Philadelphia, F			Date Sta Date Fin				12/23/ 12/23/		
Survey Location:	N E	ft.	Inner Casi Elevation:	ng		t.		er Casing vation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		Elevation: STRATIGRAPHIC		Elevation	LITHOLOGY		SAMPLES PID Soil Screen (ppm)			
- - - - - -	Gray & Brown	End of Boring		ed)			0.0		Water Sample Collected at 15'	
	s per million ow ground surfac		ows per foot Well Installe	d .					e collected mpletion	
	Driller: g Method: Inspector:	Eichelbergers MSP / JTB		Date	of M	eas	o Wate uremen ject No	t:	10.00 ft bgs 1569313.00002	

S	oil B	oring Log			Boring No.: HP-3 Monitoring Well No.:							
Proje	ect:	The Dow Che Philadelphia,	mical Company PA		Date S Date F					12/23/0 12/23/0		
Surv Loca	ey ition:	N E	ft.	Inner Ca Elevation	_		ft.			r Casing ation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		Asphalt Dk. Brown f-c	SAND, w/ ang. grav	vel & brick fra	gs (Dry)	100 mm 10			0.0	_		
_									0.0	_		
_									0.0	_		
									0.0	_		
5—									0.0			
_		Grayish Greer	e SAND, w/ ang. grave n dense silty CLAY (ND & fine ang. GRAY)	 Moist)	gs (Moist)				0.0	_		
_		Black f-c SAN	ND & fine ang. GRA	VEL (Saturated	d)				0.0	_		
_									0.0	_		
		Gray med. stif	ff micaceous silty CL End of Boring		l)				0.0		Water Sample Collected 10' bgs	
	= parts	s per million ow ground surfa	bpf = blower $N/W = No$	ws per foot Well Installe	d				-	_	e collected apletion	
	_	Driller:	Eichelbergers (MG)		Dat		leas	sur	Water:		7.50 ft bgs	
	rieia I	nspector:	JTB / MC				Pro	oje	ct No.:	41	569313.00002	

Soil E	Boring Log			Boring No.: HP-4 Monitoring Well No.:							
Project:	The Dow Chen Philadelphia, F			Date Sta Date Fin					1/5/09 1/5/09		
Survey Location:	N E	ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.			
DEPTH, ft. ELEVATION		ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
15—		End of Boring	10' bgs								
	ts per million ow ground surfac	bpf = blow $e = N/W = No$	vs per foot Well Installe							collected apletion	
Drillin Field			1eas	sur	Water: ement: ct No.:		8.00 ft bgs 569313.00002				

So	oil B	oring Log			Boring No.: HP-5 Monitoring Well No.:							
Proje	ct:	The Dow Chen Philadelphia, F			Date Sta Date Fin				} }			
Surve	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
		Asphalt Brown f-c SAN	ID & fine ang. GRA	AVEL (Dry)					0.0	_		
		Carry and a series	Lmst gravel (Dry)						0.0			
		Dk. Brown f-c	SAND, w/ ang. gra						0.0			
_	_ — — :	Brown soft mic	aceous CLAY (Mo	ist)					0.0	_		
5									0.0	_		
	_ — — :	Brown f-c SAN	D, w/ ang. gravel (Moist)		ķ.;			0.0			
		Brown f-c SAN	ID, w/ ang. gravel (Saturated)					0.0	<u> </u>		
		Black f-c SANI	D, w/ ang. gravel (S	Saturated)		0000			0.0			
									0.0			
_	= parts	s per million ow ground surfac	_	ows per foot Well Installe	d :				-	sample o	collected oletion	
Dı	rilling	Driller:	Eichelbergers		Date		_		Water:		7.00 ft bgs	
F	ield I	nspector:	MSP / JTB				Pr	oje	ct No.:	415	69313.00002	

So	oil B	oring Log			Boring No.: HP-5 Monitoring Well No.:							
Proje	ect:	The Dow Chemic Philadelphia, PA		Date Sta Date Fin					12/23/08 12/23/08			
Surv Loca	-	Inner Casir Elevation:	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.				
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_							0.0		Water Sample Collected at 11' bgs			
_										-		
15—										_		
_										_		
_										_		
	= part	s per million ow ground surface	bpf = blov N/W = No	ws per foot Well Installe		(a) = Analytical sample collected d ■ water level at completion						
	Driller: Eichelbergers Drilling Method:						leas	sur	Water: ement: ct No.:		7.00 ft bgs 569313.00002	

So	oil Bo	oring Log			Boring No.: HP-6 Monitoring Well No.:						
Proje	vct.	The Dow Chen Philadelphia, F			Date St Date Fi					1/5/09 1/5/09	
Surv	-	N E	Ground Elevation:	ft.	Inner Cas Elevation	_		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)		PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Asphalt Gray med. ang.	GRAVEL (Dry)						0.0		
_		Brown f-c SAN	ID, w/ ang. gravel ((Dry)					0.0	_	
									0.0		
_		Brown m-c SA	ND, w/ ang. gravel	(Moist)					0.0	_	
_									0.0		
5—		Brown m-c SA	ND, w/ intermitten	t coarse ang. gr	avel (Moist)				0.0	_	
									0.0	.	
_		(Saturated)	ND, w/ intermittenty to fine sandy CLA		avel				0.0		Water Sample Collected 7' bgs
									0.0		
		Brown soft clay gravel (Saturate	vey coarse SAND, ved)	w/ intermittent	med. ang.	0			0.0	_	
	= parts	s per million w ground surfac		ows per foot Well Installe	od				-	_	e collected npletion
D	rilling	Driller:	Eichelbergers		Date		_		Water: ement:		7.00 ft bgs
]	Field I	nspector:	JTB / MC				Pr	oje	ct No.:	41	569313.00002

Soil Be	oring Log					_			HP-7 Vell N	o.: TW-58S		
Project:	The Dow Cher Philadelphia,	mical Company PA		Date Sta Date Fin					2/2/09 2/2/09			
Survey Location:	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DE	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_	Asphalt Dk. Brown f-c	coarse clayey SAND	(Wet)					0.0		Flush Mount Cover in Concrete Portland Cement & Granular Bentonite Grout Bentonite Pellets		
_	Dk. Brown f-c	coarse clayey SAND	(Saturated)					0.0	Y	# 2 Sand Pack & 2" Sch. 40 PVC Riser 2" Sch. 40 PVC 0.20 Slot Screen		
								0.0				
5—								0.0				
	Brown soft, lo	w plas. f-m sandy CL	AY (Saturated	d) — — — — —				0.0				
	Gray med. stiff	f, med. plas. micaceou		(Saturated)				0.0				
	s per million w ground surfa	bpf = blow ce N/W = No V	_	d :				-	_	collected		
	Driller: Method: nspector:	Eichelbergers MSP / JTB		Date	of M	eas	sure	Water: ement: ct No.:		3.00 ft bgs 569313.00002		

Soi		Boring No.: HP-7 Monitoring Well No.: TW-58S									
Project:		The Dow Chemical Company Philadelphia, PA			Date Started: Date Finished:				12/11/09 12/11/09		
Survey Location:		N E	Ground Elevation: ft.		Inner Casing Elevation: ft.				Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DESCRIPTION	•	LITHOLOGY	SPT (bpf)		PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5—			c coarse clayey SAND (Saturated						- - -	Water Sample Collected at 7' bgs	
	parts	per million w ground surfa	bpf = blows per foot ace N/W = No Well Insta					-	_	e collected	
Driller: Eichelbergers Drilling Method: MSP / JTB				Date	Depth to Water: 3.00 ft bgs Date of Measurement: 41569313.00002						

So	oil Bo	oring Log			Boring No.: HP-8 / SB-296 Monitoring Well No.:							
Proje	CT'	The Dow Cher Philadelphia, I	mical Company PA		Date Started: 12/11/08 Date Finished: 12/11/08							
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
Asphalt Gray f-c ang. gravel (Dry) Brown f-c clayey SAND, w/ ang. gravel & bricks frags (Moist) 0.0												
Grayish Brown f-m SAND (Moist)												
_		Grayish Brown	n f-m SAND (Moist)						0.0	_		
5—		Grayish Brown	ed)		հերակում և Արարային այներին այներին այներում է հայարային այներում է հայարային այներում է հայարային այներում է Արարային այներում է հայարային այներին			0.0	_			
_		Lt. Brown med	g 7' bgs						_	Water Sample Collected at 7' bgs		
_										_		
Notes		per million	bpf = blov	ws per foot		(a)	<u> </u>	ne	lytical	sample	e collected	
	_	w ground surfa	-	ws per 100t Well Installe					-	_	apletion	
	Driller:EichelbergersDepth to Water:3.50 ft bgsDrilling Method:Date of Measurement:Field Inspector:MSP / JTBProject No.:41569313.00002											

Black silty to fine sandy CLAY, w/ f-c ang. gravel (Wet) Black silty to fine sandy CLAY, w/ f-c ang. gravel (Wet) 0.0 #2 Sand Pack & 2' 40 PVC Riser	Soil Bo	oring Log				orinç Ionite				/ o.: TW-59S	
Location: E Elevation: ft. Elevation	Project.		• •								
Brown silty to fine sandy CLAY, w/ fine ang. gravel (Moist) 0.0 Flush Mount Cover concrete Granular Bentonite Portland Cement G Bentonite Pellets Black silty to fine sandy CLAY, w/ f-c ang. gravel (Wet) 0.0 #2 Sand Pack & 2' 40 PVC Riser 2" Sch. 40 PVC 0.2 Slot Screen	=			ft.		ng	ft.			_	
Black silty to fine sandy CLAY, w/ f-c ang. gravel (Wet) Black silty to fine sandy CLAY, w/ f-c ang. gravel (Wet) 0.0 #2 Sand Pack & 2' 40 PVC Riser 2" Sch. 40 PVC 0.2 Slot Screen	DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC		
Black silty to fine sandy CLAY, w/ f-c ang. gravel (Wet) 0.0 # 2 Sand Pack & 2' 40 PVC Riser 2" Sch. 40 PVC 0.2 Slot Screen	_	Brown silty to fi	ine sandy CLAY, w	// fine ang. gra	vel (Moist)					Granular Bentonite & Portland Cement Grou	
0.0 40 PVC Riser 2" Sch. 40 PVC 0.2 Slot Screen		Black silty to fir	ne sandy CLAY, w/	f-c ang. grave	el (Wet)						
Brown f-c sandy CLAY, w/ coarse ang. gravel (Saturated)	_									2" Sch. 40 PVC 0.20	
	5————	Brown f-c sandy	y CLAY, w/ coarse	ang. gravel (S	aturated)				Y		
	_										
	_										
Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface N/W = No Well Installed ▼ = water level at completion	ppm = parts										
Driller:EichelbergersDepth to Water:5.00 ft bgsDrilling Method:Date of Measurement:Field Inspector:JTB / MCProject No.:41569313.00002	_	Drilling Method: Date of Measurement:									

Soi	il Bo	oring Log			Boring No.: HP-9 / Monitoring Well No.: TW-59S								
Projec	т.	The Dow Chem Philadelphia, P			Date Started: 2/2/09 Date Finished: 2/2/09								
Survey Locati		N E	Ground Elevation:	ft.	Inner Cas Elevation:	_		ft.		Outer Elevat	Casing ion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	LITHOLOGY SPT (bpf) SAMPLES PID Soil					WELL	WELL MATERIALS			
		Gray soft-med. s (Saturated-Wet)	tiff, low-med. plas		lty CLAY								
-			End of Borning	, 13 0gs						-			
_										-			
		per million w ground surface	bpf = blov N/W = No	vs per foot Well Installe	d					sample of	collected oletion		
		Driller: Method: nspector:	Eichelbergers JTB / MC		Date		/leas	surei	Vater: ment:		5.00 ft bgs 69313.00002	_ _ _	

So	oil B	oring Log			Boring No.: HP-9 Monitoring Well No.: TW-59S								
Proje	ect:	The Dow Chem Philadelphia, P			Date Sta Date Fin					12/11/(12/11/(
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft			ft.			r Casing ation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
		Brown silty to f	ine sandy CLAY, w	/ fine ang. gra	evel (Moist)				0.0	_			
_						***			0.0	_			
_		Black stity to fit	ne sandy CLAY, w/	i-c ang. grave	el (Wet)	*			0.0	_			
_						*			0.0	_			
5—		Brown f-c sandy	y CLAY, w/ coarse	 ang. gravel (S	aturated)	#				<u>*</u> _			
_						# # #				_			
_			End of Boring	g 7' bgs						_	Water Sample Collected at 7' bgs		
_										_			
_										_			

N	ot	es:

ppm = parts per million
bgs = below ground surface

bpf = blows per foot

N/W = No Well Installed

(a) = Analytical sample collected

 $\mathbf{\underline{v}}$ = water level at completion

Driller:	Eichelbergers
Drilling Method:	
Field Inspector:	MSP / JTB

Depth to Water: 5.00 ft bgs

Date of Measurement: 41569313.00002

Sc	oil Bo	oring Log		Boring No.: HP-10 Monitoring Well No.:								
Proje	ct:	The Dow Chen Philadelphia, F		Date Sta Date Fin						2/11/09 2/11/09		
Surve	-	N Ground E Elevation: ft.			Inner Casi Elevation:	_		ft.			er Casing ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_			D, w/ gravel (Dry)			0000			0.0			
									0.0	_		
_			f-c SAND, w/ ang.		ted)				0.0	▼ -		
_		Dk. Brown I-C	SAND, w/ ang. gra	vei (Saturated)						-	_	
5—										_		
_			End of Borin	g 7' bgs							Water Sample Collected at 7' bgs	
_										-		
	= parts	s per million	-	ws per foot Well Installe	d				-	_	e collected npletion	
D	rillino	Driller:	Eichelbergers		Date		_		Water:		3.00 ft bgs	
		nspector:	MSP / JTB		Duic	J1 1V			ct No.:		569313.00002	

S	oil Bo	oring Log			Boring No.: SB-200 Monitoring Well No.:								
Proje	act.	The Dow Chem Philadelphia, P			Date Started: 12/11/08 Date Finished: 12/11/08								
Surv Loca	ey ation:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.			
STRATIGRAPHIC DESCRIPTION LECT A SPORT WITH A STRATE WATER A STRATE OF THE STRATE OF						LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_			SAND, w/ f-c ang. g	ravel & brick	frags. (Moist)	in thair dhair dhair Chiristean ann ann ann ann ann ann ann ann ann			0.0	_			
Brown clayey m-c SAND (Moist)													
Brown clayey m-c SAND (Moist)									0.0	_			
		Brown clayey n	n-c SAND (Saturate	<u>d</u>)					0.0	Ţ			
_		Dk. grayish bro	wn to black clayey i	m-c SAND (S	aturated)					_			
5			End of Boring	g 5' bgs						_			
_													
_										_			
_										_			
	= parts	per million w ground surfac	bpf = blow $e N/W = No$	vs per foot Well Installe					-	sample	collected pletion		
		Driller:	Eichelbergers Geoprobe 6620DT MSP / JTB		Date o	_	1ea	sur	Water: ement: ct No.:		3.50 ft bgs 12/11/2008 569313.00002		

SB-201	
No.	
URS	

Soil	Boring Log		Boring No.: SB-201 Monitoring Well No.:								
Project:	The Dow Cher Philadelphia, I	mical Company PA		Date Started: Date Finished:					12/12/08 12/12/08		
Survey	N	Ground	£.	Inner Casi	_				Outer (_	
Location	1: E	Elevation:	ft.	Elevation:			ft.		Elevati	on: ft.	
DEPTH, ft.	(FT. ABOVE MSL.)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
 		GRAVEL (Dry) rown f-c med. SAN	D, w/ ang. grav	vel & brick				1.5	_		
	Brown f-c med staining (Moist	rounded gravel	, some iron	000			0.0				
	Dk Prown to	Black f-c med. dens	o CAND w/ 50	undad gravat				0.0	<u> </u>		
	(Saturated) No	te: Sheen on water Refusal at 3		unded gravel	8.0						
5—											
_									_		
Votas:											
	urts per million elow ground surfa	_	ows per foot Well Installe	ed				-	sample c		
		Eichelbergers Geoprobe 6620D)T	Date		1eas	sure	Water:	12	.00 ft bgs 2/12/2008	
Field	d Inspector:	MSP / JTB				Pro	ojeo	ct No.:	4156	9313.00002	

SB-202	
No.	
JRS	

So	oil B	oring Log			Boring No.: SB-202 Monitoring Well No.:							
Proje	ect:	The Dow Che Philadelphia		Date Sta Date Fini				12/12/08 12/12/08				
Surv	ey ition:	N E	Ground Elevation:					ft.		Outer Elevat	Casing tion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
_			GRAVEL (Dry) c SAND, w/ ang. grav	vel (Dry)					0.0	_		
_		Brown f-c loo	ose SAND & GRAVE						<u>Ā</u> -			
		Dk. Brown f-	c loose SAND & GR.	ted)					-			
_		Black f-c loos on water.	Note: Sheen					_				
5—————————————————————————————————————												
_										-		
_								-				
_										_		
	= parts	s per million w ground surf	bpf = blo face N/W = No	ws per foot Well Installe					-	sample	collected pletion	
	_	Driller:	Eichelbergers Geoprobe 6620D	Γ	Date o	_	1ea	sur	Water: ement: ct No.:	1	2.00 ft bgs 2/12/2008 69313.00002	

Soil B	oring Log			Boring No.: SB-203 Monitoring Well No.:						
Project:	The Dow Chem Philadelphia, P	• •		Date Sta Date Fir				12/12/08 12/12/08		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:			ft.		Outer Elevat	Casing ion: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Dk. Brown f-c r frags (Moist)	ned. dense SAND,	w/ ang. gravel	& wood				0.0	_	
		c loose SAND, w/			8000			0.0	<u>Ā</u> -	
_									-	
	White & Black (Saturated)	("salt & pepper")	med. sandy CL	ĀŸ						
5		End of Borin	ng 5' bgs							
_									_	
_									_	
	s per million bw ground surfac		ows per foot Well Installe	ed				-	sample of	collected oletion
	Driller: Method: onspector:	Eichelbergers Geoprobe 6620D MSP / JTB	Т	Date		/lea	sur	Water: ement:	1	2.00 ft bgs 2/12/2008 69313.00002

S	oil Bo	oring Log			Boring No.: SB-204 Monitoring Well No.:							
Proje	2CI.	The Dow Chem Philadelphia, P			Date Sta Date Fin			12/15/09 12/15/09				
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casin	ng		ft.		Outer Eleva	Casing tion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Red & Gray CC	ONCRETE & BRIC	K frags (Dry)					0.0	-		
_		Brown ang. GR	AVEL, w/ coarse sa	and (Saturated)		0 0 0 0 0 0				<u> </u>		
_		Brown well sort	ted, poorly graded,	med. SAND (S	aturated)					_		
5—			End of Bor	ing 5'						-		
_										- -		
_										_		
	= parts	per million w ground surfac	bpf = blow e N/W = No	ws per foot Well Installe	d :					sample at com	collected pletion	
		Driller: Method: aspector:	Eichelbergers Geoprobe 6620D7 MSP/JTB	Γ	Date		1ea	sur	Water: ement: ct No.:	1	2.00 ft bgs 2/15/2009 69313.00002	

So	oil Bo	oring Log			Boring No.: SB-205 Monitoring Well No.:							
Proje	JUI.	The Dow Chem Philadelphia, P			Date Sta Date Fin				12/15/09 12/15/09			
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casin	ng	ı	ft.		Outer Eleva	Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
			NCRETE & BRIC						0.0			
_		Brown med. SA	AVEL, w/ coarse S ND, w/ fine ang. & ND, w/ fine ang. &	rounded grave		0			0.0	▼ -		
_		Concrete (Satura	-			0 == -= == -=				_		
_										_		
5—										_		
_										_		
_										_		
	= parts	per million w ground surface	$bpf = blow \\ N/W = No$	ws per foot Well Installe	d :					sample l at com	collected pletion	
		Driller: Method: Caspector:	Eichelbergers Geoprobe 6620DT MSP / JTB	Γ	Date		/lea	sur	Water: ement: ct No.:	1	2.00 ft bgs 12/15/2009 669313.00002	

So	oil Bo	oring Log		Boring No.: SB-206 Monitoring Well No.:								
Proje	vct.	The Dow Chem Philadelphia, P			Date Started: 12/15/09 Date Finished: 12/15/09							
Surve	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.			r Casing ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
		Asphalt Red & Gray CO	NCRETE & BRIG	CK frags (Dry)					0.0			
_		Brown coarse S.	ND, w/ ang. grave AND, w/ ang. grav AND, w/ ang. grav	vel (Wet)			7		0.0	<u>Ā</u> -		
_		Brown med. SA	ND & decayed W	OOD frags (Sa	turated)					_		
5			End of Borin	ng 5' bgs						_		
_										_		
_										-		
	= parts	s per million w ground surface	_	ows per foot Well Installe	ed 2				-	sample	collected	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date		/leas	sur	Water ement ct No.	:	2.00 ft bgs 12/15/2009 569313.00002	

S	oil Bo	oring Log		Boring No.: SB-207 Monitoring Well No.:								
Proje	יזאב.	The Dow Chem Philadelphia, P			Date Sta Date Fin				12/15/08 12/15/08			
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Elevat	Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Gray f-c ang. Gl Brown m-c SAN							0.0	_		
_		Lt. Tan coarse S Reddish Tan coa	AND (Moist) arse SAND, w/ an	g. gravel (Mois	<u> </u>	0 (0.0	_		
_		Red coarse SAN	ND, w/ ang. gravel	(Wet)		0 (0.0	-		
_		Dk. Red coarse	SAND & ang. GR	AVEL (Saturat	ed)	0 0 (0.0	¥ -		
5—			End of Borin	ng 5' bgs						_		
_										_		
_										-		
	= parts	per million w ground surfac	-	ows per foot Well Installe						sample at comp	collected pletion	
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D MSP / JTB	<u>T</u>	Date o		1eas	sur	Water: ement: ct No.:	1	4.00 ft bgs 12/15/2009 69313.00002	

SB-209	
No.	
JRS	

Soil Boring Log	Boring No.: SB-209
	Monitoring Well No.:

Date Started: The Dow Chemical Company 12/12/08 **Project:** Philadelphia, PA **Date Finished:** 12/12/08 Ground Survey N **Inner Casing Outer Casing** Location: E Elevation: ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt Dk. Brown to Black f-c SAND (Dry) 0.0 Brown clayey f-c SAND (Wet) 0.0 Ţ Brown clayey f-c SAND (Saturated) Dk. Brown clayey f-c SAND (Saturated) Black clayey f-c SAND (Saturated) Concrete Refusal at 4' 9" bgs 5-Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface N/W = No Well Installed ■ = water level at completion 2.00 ft bgs Driller: Eichelbergers Depth to Water: Drilling Method: Geoprobe 6620DT 12/12/2008 Date of Measurement: Field Inspector: MSP / JTB Project No.: 41569313.00002

So 	oil Bo	ring Log					_			SB-21 ell No	
Proje	CT.	Γhe Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin						
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Oute Eleva	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Red BRICK fra Dk. Brown f-c S	gments SAND and f-c GRA	VEL (Dry)					0.0	_	
_		Red BRICK fra	gments SAND & f-c GRAV	 EL (Wet)		***************************************			0.0		
									0.0	_	
5—		Dk. Brown f-c S	SAND & f-c GRAV End of Boring			0000				_	
_										-	
_										_	
	= parts	per million v ground surfac	bpf = blow ee N/W = No	ws per foot Well Installe						sample at com	collected pletion
Driller: Eichelbergers Drilling Method: JTB / MC							/lea	sur	Water: ement: ct No.:		4.50 ft bgs 998083.00003

So	oil Bo	oring Log		Boring No.: SB-211 Monitoring Well No.:									
Proje	v⊂t·	The Dow Chem Philadelphia, P.			Date Sta Date Fin						12/12/09 12/12/09		
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_			ilty, f-c SAND, w/own, silty f-c SAN						0.0	_			
Black f-m SAND, w/ ang. gravel (Wet) CONCRETE dust (Wet)										_			
_		CONCRETE du		<u>-</u> 5' bgs					0.0	_			
5—										_			
_										_			
_										_			
										_			
	= parts	per million w ground surface	-	ws per foot Well Installe						sample	collected pletion		
		Driller: Method: C nspector:	Γ	Depth to Water: 2.50 ft bgs Date of Measurement: 12/12/2008 Project No.: 41569313.00002				12/12/2008					

So	oil Bo		Boring No.: SB-212 Monitoring Well No.: Date Started: 1/21/09									
Proje	v∩t.	The Dow Chem Philadelphia, P			Date Sta Date Fir							
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Concrete VOID								_		
_												
5												
_												
_		(Wet)	ND, w/ angular gra			8.0			0.0	Ā —		
_			End of Boring	10' bgs								
	= parts	per million w ground surface	bpf = blow $N/W = No$	vs per foot Well Installed	d				-	sample of at comp	collected oletion	
Driller: Eichelbergers Drilling Method: Field Inspector: JTB / MC							1eas	sur	Water: ement: ct No.:		98083.00003	

So	oil Bo	oring Log		Boring No.: SB-213 Monitoring Well No.:								
Proje	JUI.	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin				1/6/09 1/6/09			
Surve Loca	-	N E	Ground Elevation:	Inner Casir Elevation:	,	ft.		Outer Eleva	Casing tion: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_		Asphalt Brown f-c SAN	ND, w/ coarse ang. g	ravel (Moist)					0.0	_		
_		Black f-c SAN	D & f-c ang. GRAV	EL (Moist)					0.0	-		
_			D & f-c ang. GRAV D & f-c ang. GRAV						0.0	<u> </u>		
5 —			End of Boring	g 5' bgs						-		
_										-		
	= parts	per million w ground surfac	_	ws per foot Well Installe						sample at com	collected pletion	
		Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	Γ		of M	leas	sur	Water: ement: ct No.:		4.00 ft bgs 1/6/2009 569313.00002	

So	oil B	oring Log			Boring No.: SB-214 Monitoring Well No.:								
Proje	ect:	The Dow Chen Philadelphia, F	nical Company PA		Date Sta								
Surv	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Elevat	Casing ion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_			n. silty fine SAND,		(Dry)	# #			0.0	_			
_									0.0	_			
_			D, w/ m-c subround			\$			0.0	<u>Ā</u> -			
		Dk. Brown f-c	SAND, w/ m-c sub	rounded gravel	(Saturated)					-			
5—			End of Borin	ng 5' bgs			5			_			
_										_			
_										_			
										-			
	= parts	s per million ow ground surfac	-	ows per foot Well Installe	d .					sample c			
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date		/leas	sur	Water: ement: ct No.:		.00 ft bgs 1/6/2009 59313.00002		

So	oil Bo	oring Log					_		SB-21 /ell No			
Proje	2CI.	The Dow Chem Philadelphia, P			Date Sta Date Fin				12/12/0 12/12/0			
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft	! -		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_		Asphalt Dk. Brown f-c S	SAND, w/ ang. grav	el (Moist)				0.0	_			
_		Dk. Brown f-c S	SAND, w/ ang. grav	rel (Saturated)				0.0	<u>Ā</u>			
_									_			
		Dk. Brown silty	f-c SAND, w/ ang.	gravel (Satura	 ated)	r e						
	= parts	per million w ground surfac	bpf = blov e N/W = No						sample	collected		
	_	Driller: Method:	Eichelbergers JTB / MSP				/leasu	Water Water was Water was Water Water Water was with the water was with the water was was was was water was water was was was was water was was was water was	:	2.50 ft bgs 998083.00003		

S	oil Bo	oring Log					_			SB-21 Vell No	
Proje	CT.	The Dow Chem Philadelphia, P			Date Sta Date Fin					2/9/09 2/9/09	
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Oute Eleva	r Casing ition: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
			SAND, w/ ang. f-c						0.0	_	
_			SAND, w/ ang f-c g							_	
5—			End of Borin	g 5' bgs						_	
	= parts	per million w ground surfac	_	ws per foot Well Installe						sample l at com	collected pletion
		Driller: Method:	Eichelbergers JTB / MC				1eas	sur	Water: ement: ct No.:		2.00 ft bgs 998083.00003

Sc	oil Bo	Boring No.: SB-218 Monitoring Well No.:										
Proje	NCT:	The Dow Chem Philadelphia, P		Date Sta Date Fir					12/12/09 12/12/09			
Surve Loca	-	N E	Ground Elevation: ft.	ft.	Inner Casi Elevation:	_		ft.		Outer (Casing ion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_			D, w/ round f-m gr nck, SILT (Moist)	ravel (Moist)					0.0	_		
_		Brown f-c SAN	D, w/ round f-m gr	ravel (Moist)					0.0			
_		Brown f-c SAN	D, w/ round f-m gr	ravel (Saturated			•		0.0	_		
_										_		
5			End of the Bor	ring 5' bgs						_		
										_		
	= parts	per million w ground surfac	-	ows per foot Well Installe	d				-	sample c		
	_	Driller: Method:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date		leas	sure	Water: ement: ct No.:	12	.00 ft bgs 2/12/2009 69313.00002	

Soi	il Bo		Boring No.: SB-219 Monitoring Well No.:									
Project	4.	The Dow Chem Philadelphia, P			Date Sta Date Fini					12/12/0 12/12/0		
_	Survey N Ground Location: E Elevation: ft.				Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_			lack f-c GRAVEL cacous, med. dense)				0.0	_		
_									0.0	_		
_									0.0	-		
_									0.0	_		
5——		Dk. Brown clayo	ey f-c SAND (Satu	nrated)						<u>¥</u> _		
_										_		
_										_		
			End of Boring	g 10' bgs						_		
	_	per million w ground surface	bpf = blo	ws per foot Well Installe							e collected appletion	
		Driller: Method: Caspector:	Eichelbergers Geoprobe 6620D' MSP / JTB	T		of M	Ieas	sur	Water: ement: ct No.:		5.00 ft bgs 12/12/2009 569313.00002	

SB-221	
No.	
URS	

Soil	Boring Log	Boring No.: SB-221 Monitoring Well No.:								
Project:	The Dow Chem Philadelphia, P	Date Sta Date Fir								
Survey Location	N n: E	ft.	Inner Casi Elevation:	_		ft.		Outer Eleva	Casing tion: ft.	
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Asphalt_ Black f-c SANI	D, w/ f-m ang. & ro	ounded gravel (Dry)	.000			72.4		
	Black f-c SANI	D, w/ f-m ang. & ro	ounded gravel (Moist)		7		395	_	
	Black f-c SANI	O, w/ f-m ang. & ro	ounded gravel (Wet)	0000	,		677	_	
	Black f-c SANI (Note: water ha	D, w/ f-m ang. & ros s sheen and strong End of Boring	ounded gravel (odor) g 3.2' bgs	Saturated)		0 70 0 0			▼ -	
5—									_	
									-	
_									_	
									_	
									_	
	urts per million elow ground surfac	-	ows per foot Well Installe	ed				-	sample	collected pletion
	Driller: ng Method: d Inspector:	Eichelbergers Geoprobe 6620D JTB / MC	Т	Date		/leas	sur	Water: ement: ct No.:		3.00 ft bgs 1/6/2009 669313.00002

SB-222	
No.	
JRS	

So	oil Bo		Boring No.: SB-222 Monitoring Well No.:								
Proje	JUI.	The Dow Chem Philadelphia, P		Date Sta Date Fin					12/15/0 12/15/0		
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft.					Outer Eleva	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Asphalt Gray f-c ang. Gl Brown m-c SAN	RAVEL (Dry)	& brick frags (Moist)				0.0	-	
_			D, w/ ang. gravel (M) ND, w/ dense ang. &		vel (Wet)	0			0.0	_	
		Brown m-c SAN (Saturated)	ND, w/ dense ang. &	k rounded grav	vel		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0	-	
5			End of Boring	g 5' bgs		3:00			0.0	▼ —	
										_	
_										_	
	= parts	per million w ground surface	bpf = blov e N/W = No	ws per foot Well Installe						sample at com	collected pletion
		Driller: Method: Caspector:	Eichelbergers Geoprobe 6620DT MSP/JTB	Γ	Date (/leas	sur	Water: ement: ct No.:		5.00 ft bgs 12/15/2009 569313.00002

Soil Boring Log					Boring No.: SB-223 Monitoring Well No.:							
Proje	⊃Ct.	The Dow Cher Philadelphia, F	nical Company PA		Date Sta Date Fin))		
Surv Loca	ey ation:	N Ground Elevation: ft.		ft.	Inner Casii Elevation:		ft.		Outer Elevat	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Dk. Brown f-c Brown silty SA	SAND (Dry) .ND, w/ ang. grave	l (Moist)					0.0	_		
_						+ + + +			0.0	_		
_	====	Brown silty CL	AY (Saturated) SAND, w/ rounded		 	0 (0.0	Ā -		
_										-		
5—		Dk. Brown dec	ayed WOOD frags End of Borin	(Saturated) ng 5' bgs						-		
_										-		
_										_		
Note	s:											
ppm	= parts	per million w ground surfac	-	ows per foot Well Installe	ed 2					sample of at comp	collected	
		Driller:Method:	Eichelbergers Geoprobe 6620D MSP / JTB	<u>T</u>	Date		1eas	sur	Water: ement: ct No.:	1	3.00 ft bgs 2/15/2009 69313.00002	

SB-225	
No.	
JRS	

Soil Boring Log	Boring No

Boring No.: SB-225
Monitoring Well No.:

Monitoring Well No.: The Dow Chemical Company **Date Started:** 12/15/99 **Project:** Philadelphia, PA **Date Finished:** 12/15/09 Survey N Ground **Inner Casing Outer Casing** Location: E Elevation: ft. **Elevation:** ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Dk. Brown to Black m-c SAND, w/ rounded gravel & soft, brittle "plastic like" debris, & intermittent white silty material 0.0 0.0 0.0 ₹ Dk. Brown to Black m-c SAND, w/ rounded gravel & soft, brittle "plastic like" debris, & intermittent white silty material (Saturated) Lt. Brown coarse SAND, w/ fine ang. gravel (Saturated) 0 Dk. Brown to Black m-c SAND, w/ rounded gravel & soft, brittle "plastic like" debris, & intermittent white silty material (Saturated) 5-End of Boring 5' bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed bgs = below ground surface ▼ = water level at completion Eichelbergers Driller: Depth to Water: 3.00 ft bgs Geoprobe 6620DT Drilling Method: Date of Measurement: 12/15/2009 MSP / JTB Project No.: 41569313.00002 Field Inspector:

So	Soil Boring Log					Boring No.: SB-226 Monitoring Well No.:							
Proje	י זייב	The Dow Chem Philadelphia, P		Date Sta Date Fin	8 8								
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:		ft.		Outer Casing Elevation: ft.				
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_		Asphalt Gray f-c ang. Gl Black f-c SAND	RAVEL (Dry) O w/ gravel (Moist)	Note: Slight S	Sheen				0.5	-			
_									0.1	_			
_									0.8	-			
_			rown f-c SAND w		ous glass frags					▼ -			
5—			End of Borir	ng 5' bgs						_			
_										-			
_										_			
_										_			
	= parts	per million w ground surface	-	ws per foot Well Installe						sample at com	collected pletion		
	_	Driller: Method: Onspector:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date o		leas	sur	Water: ement: ct No.:	1	4.00 ft bgs 12/21/2008 669313.00002		

So	oil Be		Boring No.: SB-227 Monitoring Well No.:								
Proje	Project: The Dow Chemical Company Philadelphia, PA					Date Started: 1/7/09 Date Finished: 1/7/09					
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Brown med. der	ise f-c SAND & f-r	n ang. GRAV	EL (Moist)				0.0	_	
_									0.0	_	
_			nse f-c SAND & f-r						0.0	▼ -	
_										_	
5			End of Boring	g 5' bgs		<u> </u>				_	
_										_	
										-	
Notes		s per million	bpf = blov	us per feet		(a)	^	no	lytical	cample	collected
	-	w ground surface	_	ws per 100t Well Installe						at com	
		Driller: Method: Onspector:	Eichelbergers Geoprobe 6620D JTB / MC	Γ	Date (leas	sur	Water: ement: ct No.:		3.00 ft bgs 1/7/2009 569313.00002

SB-228	
No.	
URS	

Soil B	Soring Log		Boring No.: SB-228 Monitoring Well No.:									
Project:	The Dow Cher Philadelphia, I	mical Company		Date Started: Date Finished:								
Survey Location:	N Ground E Elevation: ft.		ft.	Inner Cas Elevation	_		ft.		Outer Elevati	Casing ion: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
	Asphalt Dk. Brown f-c Gray stiff CLA	SAND, w/ gravel & Y (Moist)	brick frags (N	Toist)				0.0	-			
	Brown clayey	med. SAND (Moist))					0.7	_			
_	Brown very loo	ose f-m SAND, w/r	ounded gravel	(Wet)				14.6				
5		ose f-m SAND, w/r						6.0	<u>Ā</u> —			
_			-									
_									_			
_		End of Boring	g 10' bgs						_			
	ts per million ow ground surfac	_	ws per foot Well Installe	d				-	sample c			
	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620D' MSP/JTB	Т	Date		leas	sure	Water: ement: ct No.:	1.	.00 ft bgs 2/12/2008 69313.00002		

SB-229	
No.	
RS	

Soil B	oring Log	Boring No.: SB-229 Monitoring Well No.:												
Project:	The Dow Cher Philadelphia,	mical Company PA			Date Started: 12/12/08 Date Finished: 12/12/08									
Survey Location:	N Ground E Elevation: ft.			Inner Cas	_		ft.		Outer (Elevati	=				
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS				
		GRAVEL (Dry) e SAND, w/ ang. gra	avel & brick fra	ngs (Moist)	-			0.7	_					
_								0.5	_					
								1.1	_					
		se SAND, w/ rounde		 ated) 	8.6			1.0	▼ -					
5		ofty silty CLAY (Sat se SAND, w/ rounde End of Borin	d gravel (Satur	ated)	· · · ·				_					
									_					
									_					
	s per million ow ground surfa	_	ws per foot Well Installe	d				-	sample c					
_	Driller: Method: Inspector:	Eichelbergers Geoprobe 6620D' MSP / JTB	Т	Date	of M		sure	Water: ement:	12	.00 ft bgs 2/12/2008 59313.00002				

S	oil Bo	oring Log	Boring No.: SB-230 Monitoring Well No.:								
Proje	ect:			Date Started: 1/7/09 Date Finished: 1/7/09							
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Black to DK. Brang. gravel. (Mo	rown med. dense n	nicacous f-m S	AND, w/ m-c				0.0	_	
_		(Moist)	nse micacous f-m S				-		0.0	_	
_		(Wet)							0.0	y _	
_		Brown med. der (Saturated)	nse micacous f-m S	SAND, w/ m-c	ang. gravel.					_	
_		Brown med. der	nse, f-c SAND & f	-m GRAVEL (Saturated)						
5—			End of Borin	ng 5' bgs							
_										_	
_										-	
_										_	
_											
	= parts	per million w ground surfac	_	ows per foot Well Installe					-	sample at com	collected pletion
		Driller: Method: One of the control	Eichelbergers Geoprobe 6620D JTB / MC	T			/lea	sur	Water: ement: ct No.:		3.00 ft bgs 1/7/2009 569313.00002

SB-231	
No.	
IRS	

S	oil Bo	oring Log		Boring No.: SB-231 Monitoring Well No.:							
Proje	Project: The Dow Chemical Company Philadelphia, PA				ted she			12/16/08 12/16/08			
•		N E	Ground Elevation: ft.	Inner Casing	ft.		Outer (Elevati	Casing tion: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
			D, w/ ang. gravel (Moist) AND, w/ rounded gravel (Moist)				0.0				
_		Brown med. SA	AND, w/ founded graver (Moist)		。() Ø		0.0	_			
_				- - -	。 () <i>o</i> (0.0	_			
_		Black f-c SAN	D, w/ sub-ang. gravel (Moist)				0.0	_			
							0.0	_			
5			End of Boring 5' bgs	_				<u> </u>			
_											
_											
_											
_								_			

ppm = parts per million

bpf = blows per footN/W = No Well Installed

(a) = Analytical sample collected▼ = water level at completion

bgs = below ground surface N/W = No Well Insta

Depth to Water:
Date of Measurement:
Project No.:

5.00 ft bgs 12/16/2008 41569313.00002

Drilling Method: Field Inspector:

Geoprobe 6620DT MSP / JTB

So	oil Bo		Boring No.: SB-233 Monitoring Well No.:								
Projec	Ct.	The Dow Chem Philadelphia, P			Date Sta Date Fin					1/14/09 1/14/09	
Surve Locat	-	N E	Ground Elevation:			Inner Casing Elevation: ft.				Outer Elevat	Casing tion: ft.
DEРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Gray and Red Fl Asphalt	ILL, (Building Rub	ble concrete &	z brick frags)				0.0		
		Brown med, SA	ND, w/ f-m rounde	d gravel (Dry)		0 (0.0		
-		Black f-c SAND	o, w/ f-c ang. subrou	 Dry)				0.0	-		
_			ND, w/ f-m rounde med. plas, silty CI						0.0	<u>Ā</u> -	
5 -			End of Boring	g 5' bgs						-	
Nata										_	
	= parts	per million w ground surface	bpf = blow $e N/W = No$	ws per foot Well Installe	d					sample at comp	collected
	_	Driller: Method: Conspector:	Eichelbergers Geoprobe 6620DT JTB / MC	Γ	Date		/leas	sur	Water: ement: ct No.:		4.00 ft bgs 1/14/2009 69313.00002

So	oil Bo	Boring No.: SB-234 Monitoring Well No.:									
Proje	ידאני.	The Dow Chen Philadelphia, P			Date Started: 12/16/09 Date Finished: 12/16/09						
Surv	-	N E	Ground Elevation:	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		AsphaltBlack & Gray f	-c SAND, w/ ang.	gravel & brick	frags (Dry)				0.0	_	
_		Black f-c SANI (Moist)	D, w/ dense fine sul	o. ang. gravel &	k brick frags				0.0	_	
_		Dk. Red f-c SA frags (Moist)	ND, w/ dense fine	sub. ang. grave	l & brick				0.0	_	
5		Dk. Brown coar to Saturated)	End of Borin		AVEL (Wet				0.0		
	= parts	per million w ground surfac	-	ws per foot Well Installe						sample at com	collected pletion
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date of		1eas	sur	Water: ement: ct No.:	1	5.00 ft bgs 12/16/2009 69313.00002

So	oil Bo	oring Log		Boring No.: SB-235 Monitoring Well No.:									
Proje	ידאני.	The Dow Chem Philadelphia, P								12/16/09 12/16/09			
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casin	ng		ft.		Outer Elevat	Casing ion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_		Asphalt Gray m-c ang. C Dk. Brown to Li frags (Moist)	GRAVEL (Dry) t. Brown dense f-c	SAND, w/ ang	g, gravel brick				0.0	_			
_									0.0	-			
_									0.0	_			
_		Brown well sort	ed, poorly graded						0.0	_			
5—			End of Borin	ng 5' bgs						<u> </u>			
_										_			
_										_			
Notes													
		per million w ground surface	-	ows per foot Well Installe	d :					sample of at comp	collected pletion		
		Driller: C	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date		1eas	sur	Water: ement: ct No.:	1	5.00 ft bgs 2/16/2009 69313.00002		

MELLES O Social n (ppm)		Boring No.: SB-238 Monitoring Well No.:									Soil Boring Log					
Location: E Elevation: ft. Elevati											ompany			ect:	Proj	
Asphalt Gray GRAVEL & CONCRETE frags (Dry) Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown med. stiff CLAY (Wet) O.0 Red BRICK frags (Moist) Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown med. stiff CLAY (Saturated)	it.	_			t.	fi		_		ft.				-		
Gray GRAVEL & CONCRETE frags (Dry) Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown med. stiff CLAY (Wet) O.0 Red BRICK frags (Moist) Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown med. stiff CLAY (Saturated)	LS	WELL MATERIALS	WELL	PID Soil Screen (ppm)	SAMPLES	SPT (bpf)	Hud	ГІТНОГОĞУ		CRIPTION	TIGRAPHIC DESC	STI		ELEVATION (FT. ABOVE MSL)	DЕРТН, ft.	
Dk. Brown med. stiff CLAY (Wet) O.0 O.0 Red BRICK frags (Moist) Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown med. stiff CLAY (Saturated)				0.0						(Dry)	NCRETE frags (I	AVEL & C				
Dk. Brown med. stiff CLAY (Saturated) 0.0 0.0 0.0 0.0			-	0.0)	avel (Moist)					_	
Ned BRICK frags (Moist) Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown med. stiff CLAY (Saturated)			-	0.0							LAY (Wet)	n med. stiff	Dk. Brown		_	
Dk. Brown f-c SAND, w/ fine ang. gravel (Moist) Dk. Brown med. stiff CLAY (Saturated)			_	0.0											_	
Dk. Brown med. stiff CLAY (Saturated)			-	0.0							 ist)	CK frags (N	Red BRICI	===:	_	
Dk. Brown f-c SAND, w/ fine ang. gravel (Saturated)										d)	CLAY (Saturated)	n med. stiff	Dk. Brown		5—	
Dk. Brown, well sorted, med. SAND (Saturated)			-					000	ited)						_	
			_												_	
Brown coarse SAND, w/ rounded gravel (Saturated)			-					0	ed)	vel (Saturate	 w/ rounded grave	arse SAND	Brown coar		-	
End of Boring 10' bgs			•))' bgs	nd of Boring 10'					
Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface N/W = No Well Installed ▼ = water level at completion			_	-					d	-			-	= parts	ppm	
Driller:EichelbergersDepth to Water:10.00 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:12/16/2009Field Inspector:MSP / JTBProject No.:41569313.00002		12/16/2009	1	ement:	ıre	eası	Μe				obe 6620DT	Geop	Method:	_		

So	oil Bo	oring Log			Boring No.: SB-240 Monitoring Well No.:							
Proje	JCI.	The Dow Chem Philadelphia, P			Date Sta Date Fin					12/17/08 12/17/08		
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casin	ng		ft.	Outer Casing Elevation:		_	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_			oarse SAND, w/ ar coarse SAND, w/ b						0.0	-		
_		Brown, med. sti	ff, micacous silty (CLAY (Moist)					0.0	_		
_		Red, BRICK fra	ags (Moist)						0.0	_		
_		Brown, med. sti	ff, micacous silty (CLAY (Moist)					0.0	-		
5—	<u> </u>	Brown, med. SA frags (Moist)	AND, w/ rounded g	gravel & interm	ittent quartz				0.0			
_									0.0	_		
_									0.0	_		
_									0.0	_		
	= parts	s per million w ground surface	-	ows per foot Well Installe	d :				-	sample at com	collected pletion	
	_	Driller: Method: C	Eichelbergers Geoprobe 6620D MSP / JTB	<u>T</u>	Date		leas	sur	Water: ement: ct No.:	1	16.00 ft bgs 12/17/2008 569313.00002	

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RS 1
JRS 1

So	oil B	oring Log			Boring No.: SB-240 Monitoring Well No.:							
Proje	ect:	The Dow Che Philadelphia,	emical Company , PA		Date Started: 12/17/08 Date Finished: 12/17/08							
Surve	-	N E	Ground Elevation:	ft.	Inner Ca Elevation	_		ft.		Outer Elevat	Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
									0.0			
_									0.0	_		
_		Brown, med.	SAND, w/ intermitted	nt quartz frags	(Moist)				0.0	_		
_									0.0	_		
15—		Grayish Brow (Moist)	vn, fine to coarse SAN	D, w/ angular	ground —				0.0	_		
_		Gray to Dk G	oray, hard, coarse SAN	TD (Saturated)					0.0	▼ -		
_	— — —	Dk. Red, very	y dense, SILT (Sarurat	ed)						-		
			e SAND, w/ rounded ş							_		
Notes	3:	Dk. Red, very	y dense, SILT (Saturat	ed) End of bo	oring 20'							
ppm =	= parts	s per million ow ground surf	bpf = blow face $N/W = No^{-1}$	ws per foot Well Installe	d				-	sample of	collected bletion	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620DT MSP / JTB	Γ	Da		Лea	sur	Water: ement: ct No.:	1	6.00 ft bgs 2/17/2008 69313.00002	

S	oil B	oring Log		Boring No.: SB-241 Monitoring Well No.:							
Proje	ect:	The Dow Chem Philadelphia, P	• •		Date S Date F					1/14/09 1/14/09	
Surv	-	N E	Ground Elevation:	ft.	Inner Cas	_		ft.		Outer Elevat	Casing ion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Weathered Con	crete			- 一 ラシ ラシ ラシ ラシ ラシ ラシ ラシ ラシ ラシ ラシ ラシ ラシ ラシ			0.0	_	
		Dk. Brown to B	lack f-c SAND, w/	f-c ang. grave	I (Moist)	==-			0.0		
_									0.0	_	
_									0.0		
5		Lt. Brown well	sorted, med. SANI	D (Moist)					0.0	_	
		_L	ted med. SAND (M						0.0	_	
			l. density, med. pla						0.0	_	
_									0.0	_	
		Black f-c SANI	D, w/ f-c ang. grave	ol. brick frags (Moist)				0.0	_	
		2.55.7.7.0.7.11.11	-, 2 c ang. grave	-, o nugo (1					25.6	<u> </u>	
	= part	s per million ow ground surfac	_	ws per foot Well Installe	d				-	sample of	collected oletion
D	rilling	Driller:	Eichelbergers		Dat		_		Water:		0.00 ft bgs
	_	nspector:	JTB / MC						ct No.:		98083.00003

Soil E	Soring Log		Boring No.: SB-241 Monitoring Well No.:								
Project:	The Dow Cher Philadelphia,	mical Company PA		Date Star Date Fini					1/14/09 1/14/09		
Survey Location:	N E	Ground Elevation:		Inner Casin Elevation:	ıg		ft.		Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION		STRATIGRAPHIC DI	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
15	Black clayey f	End of Boring		ed)							
	ts per million ow ground surfa	bpf = blow $ce N/W = No V$	s per foot Well Installed						sample at com	collected pletion	
	Driller: g Method: Inspector:	Eichelbergers JTB / MC	_	Date o		leas	sur	Water: ement: ct No.:		0.00 ft bgs 98083.00003	

So	oil Bo	oring Log			Boring No.: SB-242 Monitoring Well No.:							
Proje	JUT'	The Dow Ch Philadelphia	nemical Company a, PA		Date Sta Date Fin				1/14/09 1/14/09			
Surv	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_	ft.			r Casing ation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_		Asphalt Gray coarse	SAND and f-c GRAVE	EL (Moist)				0.0	_			
_						京,是以是以是以是以是以是以是以是以是以是以是以是以是以是以是以是		0.0	_			
_								0.0	_			
_		Dk. Brown f	-c SAND, w/ f-c gravel	and brick fra	gs (Moist)			0.0	_			
5			, 5					0.0	_			
_								0.0	_			
_								0.0	_			
_								0.0	_			
_								0.0	_			
								0.0				
	= parts	per million w ground sur	$bpf = blow$ face $N/W = No^{-1}$		ed					collected appletion		
	1111	Driller:	Eichelbergers					Water:		11.00 ft bgs		
	_	Method: _	JTB / MC		Date	ot N		ement: ct No.:		998083.00003		

So	il Bo	oring Log			Boring No.: SB-242 Monitoring Well No.:							
Projec	∩t:	The Dow Chem Philadelphia, P			Date Sta Date Fini				1/14/09 1/14/09			
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft		Outer Eleva	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
			SAND, w/ f-c grave lack f-c SAND, w/	f-c gravel (Sat				0.0	<u>_</u> _			
_			End of Boring	g 15' bgs					-			
	= parts	per million w ground surfac		ws per foot Well Installe					sample l at com	collected pletion		
		Driller: Method:	Eichelbergers JTB / MC			_	1easu	Water rement ect No.	:	11.00 ft bgs 998083.00003		

Soil E	Soring Log			Boring No.: SB-248 Monitoring Well No.:							
Project:	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin					12/19/08 12/19/08		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.	
DEPTH, ft. ELEVATION (FT ABOVE MSI)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
	Asphalt Brown f-m silty	y SAND, some f-c a	ang. gravel (Dry	·)				0.0 13.5	-		
	Red f-c BRICK	frags (Dry)			*			0.0	_		
	Brown sandy C (Dry)	LAY to clayey SA	ND, trace f-m a	ng. gravel				0.0	_		
-								0.0	_		
5	Brown f-c silty	SAND, trace f-c ar	ng. gravel (Dry)		# # # #			0.0	_		
								0.0	_		
_					+ + +			0.0	_		
_					+ + + +			2.1	_		
-	CONCRETE (I Brown f-c silty	Ory) SAND, trace f-c ar	ng. gravel (Dry)					0.0	-		
	ts per million	-	ws per foot Well Installe	d :					sample at comp	collected pletion	
	Driller: g Method:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date	of M	leas	sure	Water: ement: ct No.:	1	4.00 ft bgs 12/19/2008 669313.00002	

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Soil Bo	ring Log		Boring No.: SB-248 Monitoring Well No.:									
Proidct.	The Dow Chen Philadelphia, F	nical Company PA		Date Started: Date Finished:					12/19/08 12/19/08			
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Elevat	Casing ion: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
5	Brown f-c silty	End of Boring	g 15' bgs					0.0 10.8 88.9 421 620	▼ -			
Notes: ppm = parts p bgs = below	per million ground surface		ws per foot Well Installe						sample of	collected oletion		
Drilling N Field Ins		Eichelbergers Geoprobe 6620D' MSP / JTB	Τ	Date o		leas	sure	Water: ement: ct No.:	1	4.00 ft bgs 2/19/2008 69313.00002		

SB-249	
No.	
URS	

Soil Bo	oring Log		Boring No.: SB-249 Monitoring Well No.:								
Project.	The Dow Chem Philadelphia, P		Date Sta Date Fin				12/19/08 12/19/08				
Survey N Location: E		Ground Elevation:	Inner Casi Elevation:	ng	ft.		Outer Casing Elevation:				
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
-		rse BRICK frags la rown, f-c silty SAN ry)		GRAVEL,	angebrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstrangstran Objection objection objections by objection objection objection objections		0.0				
							0.0	_			
-							2.2	_			
-							0.0	-			
5	Brown, f-m silty	SAND, w/ some f	-c ang. gravel	(Dry)			2.4	_			
							0.0	_			
							0.0				
_							6.1				
							0.0				
Notes:	por million	L-£ 11	vio mon Er - i		(0)	Δ	الرون م	00mm1-	pollogic d		
ppm = parts bgs = below	w ground surface	bpf = blow $e N/W = No$	ws per foot Well Installe	d				sample of at comp			

Driller: Eichelbergers
Drilling Method: Geoprobe 6620DT
Field Inspector: MSP / JTB

Depth to Water: 15.00 ft bgs

Date of Measurement: 12/19/08

Project No.: 41569313.00002

SB-249	
No.	
URS	

Soil Boring Log	Boring No.: SB-249
	Monitoring Well No.:

Date Started: The Dow Chemical Company 12/19/08 **Project:** 12/19/08 Philadelphia, PA **Date Finished:** N Ground Survey **Inner Casing Outer Casing** Location: E Elevation: ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SAMPLES SPT (bpf) DEPTH, ft. WELL STRATIGRAPHIC DESCRIPTION MATERIALS Brown, f-m silty SAND (Dry) (Saturated at 15' bgs) 21.4 329 1111 1964 Ţ 15-End of Boring 15' bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installedbgs = below ground surface **▼** = water level at completion Driller: Eichelbergers Depth to Water: 15.00 ft bgs Drilling Method: Geoprobe 6620DT Date of Measurement: 12/19/08 Field Inspector: MSP / JTB Project No.: 41569313.00002

S	oil B	oring Log		Boring No.: SB-251 Monitoring Well No.:								
Proje	ect:	The Dow Chem Philadelphia, P		Date Sta Date Fin			12/18/0 12/18/0					
Surv Loca	ey ition:	N E	ft.	Inner Casin Elevation:	ng		ft.		Outer Casing Elevation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_		Dk. Gray, f-m c		st) Moist)					0.0	_		
_	Dk. Gray clayey SILT grading to silty CLAY (Moist) (Strong petrol. odor)											
_									3.2	_ 		
5		Dk. Gray, f-c an	g. GRAVEL (Satu	, ,	petrol. odor)	**************************************			22.9	_		
_										_		
_												
Note	s:											
	_	s per million ow ground surfac	-	ws per foot Well Installe	ed :				-	_	collected pletion	
	Driller: Eichelbergers Drilling Method: Geoprobe 6620DT Field Inspector: MSP / JTB Part level at completion Depth to Water: 4.50 ft bgs Date of Measurement: 12/18/2008 Project No.: 41569313.00002											

SB-253	
No.	
URS	

Soi	il Bo	oring Log			Boring No.: SB-253 Monitoring Well No.:								
Projec	`† ·	The Dow Chen Philadelphia, P		Date Sta Date Fin					12/16/08 12/16/08				
Surve	-	N	Ground Elevation:		Inner Casir	_					Casing		
Locati	ion:	Е	ft.	Elevation:			ft.		Elevat	ion: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
		Gray, Tan & Rebuilding debris)	ed CONCRETE & (Moist)	BRICK frags (crushed				0.0				
									0.0	-			
									0.0				
_									0.0	_			
5		Gray med. stiff	sandy, gravelly CL	AY (Wet)					0.0	_			
_						# #				_			
						*							
_						*				_			
			End of Borin	g 10' bgs						<u> </u>			
	parts	per million w ground surfac		ws per foot Well Installe	ed <u>y</u>					sample of	collected bletion		
		Driller: Method:	Eichelbergers Geoprobe 6620D MSP / JTB	Т	Date o	of M	leas	sure	Water: ement: et No.:	1	0.00 ft bgs 2/16/2008 69313.00002		

So	oil Bo	Boring No.: SB-254 Monitoring Well No.:									
Proje	ect:		Date Sta Date Fin	98 98							
Surv	-	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_			arse SAND & GRA ND, w/ concrete fra						0.0	_	
_		Dk. Brown to Br frags (Moist)	rown, f-c SAND, w	rounded grav	el & brick				0.0	-	
5—		Dk. Brown to Bi	rown, f-c SAND, w		rel & brick				0.0	_ Ā	
_				·						_	
_										-	
_										_	
	= parts	per million w ground surface	bpf = blow N/W = No V	vs per foot Well Installe							collected apletion
	Driller: Eichelbergers Depth to Water: 4.50 ft bgs Drilling Method: Geoprobe 6620DT Date of Measurement: 12/16/2008 Field Inspector: MSP / JTB Project No.: 41569313.00002										

So	oil Bo	oring Log		Boring No.: SB-255 Monitoring Well No.:							
Proje	CT.	The Dow Chem Philadelphia, P			Date Sta Date Fin))					
Surve Loca	-	ft.	Inner Casi Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
-		Oncrete Dk. Brown f-c S	SAND, w/ f-c grave	l (Dry)					0.0	-	
5—			SAND, w/ f-c rou	-					0.0	_	
_		Dk. Brown f-c S	SAND, w/ f-m ang. SAND, w/ f-m ang. low plas. f-m sand	subrounded gr	avel				0.0	▼ -	
_			low plas. f-m sandy							-	
			End of Boring	-	,						
	= parts	per million w ground surfac	bpf = blow e N/W = No	ws per foot Well Installe	d :				-	sample at com	collected pletion
Driller: Eichelbergers Depth t Drilling Method: Date of Meas Field Inspector: JTB / MC Pro											6.00 ft bgs 998083.00003

So 	oil Bo	Boring No.: SB-256 Monitoring Well No.:										
Proje	CT.	The Dow Chem Philadelphia, P			Date Started: 1/14/09 Date Finished: 1/14/09							
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	=				Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		BRICK & CON Asphalt	CRETE frags (Buil	ding Rubble)					0.0			
-			SAND, w/ m-c ang	gravel (Moist		%°%			0.0			
_			O, w/ f-c ang. gravel						0.8	-		
_									1.0	-		
_									0.6			
_									0.5			
5—									1.9	Ť -		
		Black f-c SAND	D, w/ f-c ang. gravel	(Saturated)						÷ -		
_			End of Boring	10' bgs						-		
Notes	S:	1		<u>-</u>								
ppm : bgs						sample at com	collected pletion					
		Depth to Water: 6.00 ft bgs										
		Method:	JTB / MC		Date o	of M			ement: ct No.:	199	998083.00003	

So	oil Bo	Boring No.: SB-257 Monitoring Well No.:									
Proje	. 1∩2	The Dow Chem Philadelphia, P		Date Started: 12/18/0 Date Finished: 12/18/0							
Surv	-	N E	ft.	Inner Casii Elevation:	•					Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Brown, f-c claye and trace clay ar	ey SAND & f-c ang nd glass frags (Dry)	. GRAVEL, v	v/ brick frags,				0.0	_	
_									0.0	_	
_		Dk. Brown, f-c s	silty SAND & fine	ang. GRAVE					0.0	_	
_									0.0	_	
5—		Dk. Gray f-m sil	ity SAND, w/ some	clay (Dry) (S	trong odor)	###			0.0	-	
_		\(\)(Saturated)	n, woody debris lay g. GRAVEL & woo (Strong odor)		,				970	▼ -	
			End of Boring	10' bgs.							
	= parts	per million w ground surface	bpf = blow $e N/W = No$	vs per foot Well Installe	ed :				-	sample at com	collected pletion
	Driller:EichelbergersDepth to Water:7.50 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:12/18/2008Field Inspector:MSP / JTBProject No.:41569313.00002										

S	oil Bo	oring Log			Boring No.: SB-258 Monitoring Well No.:								
Proje	JUT'	The Dow Chem Philadelphia, P			Date Sta Date Fir				12/18/08 12/18/08				
Surv Loca	ey tion:	N E	ft.		Inner Casing Elevation: Outer Casing Elevation: Elevation:								
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		ESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS				
-		Asphalt Concrete BRICK & CON	CRETE frags (Buil	ding Rubble)					-				
		Concrete							-				
		L	ed, med. dense, med.					10.2					
-		Black well sorte frags, wood frag	ed, med. dense, med ss (Saturated) End of Boring		-c gravel				▼ -				
Notes		per million	bpf = blov	vs per foot		(a):	= Ans	alytical	sample (collected			
	_	w ground surfac	-	ed				l at comp					
Driller: Eichelbergers								Water rement ect No.		5.00 ft bgs 98083.00003			

Soil E	Boring Log		Boring No.: SB-259 Monitoring Well No.:								
Project:	The Dow Chem Philadelphia, P			Date Started: 12/22/08 Date Finished: 12/22/08							
Survey Location:	N E	Ground Elevation: ft.		Inner Casi Elevation:		ft.		Outer Eleva	Casing tion: ft.		
DEPTH, ft. ELEVATION		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Asphalt Brown to Lt. Br gravel. (Dry)	own f-m silty SAN	ND, some clay,	some f-c ang.				0.0	-		
								0.0			
	Grayish Brown,	silty CLAY, trace	fine to med. sa	and (Dry)				0.0			
	Lt. Gray to Gray	yish Mauve, f-c SA	AND (Dry)					0.0	-		
5	Grayish Brown	to Red, silty CLA	Y (Dry)					0.0			
								0.0	-		
+	Dk. Gray f-c sil	ty SAND & f-c an	g. GRAVEL (o	dor)				0.0	<u>Ā</u> -		
	(Saturated)							0.0	_		
								0.0	_		
		End of Borin	g 10' bgs					0.0			
	ts per million ow ground surfac	-	ows per foot Well Installe	d				-	sample at com	collected pletion	
	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date		leas	sur	Water: ement: ct No.:		7.00 ft bgs 12/22/2008 569313.00002	

SB-260	
No.	
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Soil	ΙВ			_			SB-260 /ell No.				
Project: The Dow Chemical Company Philadelphia, PA					Date Sta Date Fir						
Survey Location:		N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.		Outer (_
	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC			LITHOLOGY		SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Asphalt Brown f-c silty	SAND & f-c round	I & ang. GRAV	/EL (Dry)				0.0	-	
		Red Brick (Dry							0.0	_	
_		Brown to Grayi	sh Brown, mottled	silty CLAY (E	Ory)				0.0	_	
_									0.0		
5—		Dk. Gray coarse Brown coarse S							76	_	
		Dk. Gray coarse							30.3 173	▼ -	
				,		Oline Periodia de la company de la compa				-	
			End of Boring	g 10' bgs.							
	_	s per million w ground surfac	_	ws per foot Well Installe	ed				-	sample comple at complete	
	_	Driller: Method:	Eichelbergers Geoprobe 6620D MSP / JTB	<u>T</u>	Date	_	leas	sur	Water: ement: ct No.:	1	00 ft bgs 2/18/08 9313.00002

SB-261	
No.	
IRS	

Soil I	Boring Log	Boring No.: SB-261 Monitoring Well No.:							
Project:	Project: The Dow Chemical Company Philadelphia, PA				rted ishe			12/18/(12/18/(-
Survey N Location: E		Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft.		Outer Casing Elevation: ft.	
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	Asphalt Brown to Ora	nngish Brown, f-m. sil Ory)	ty SAND, with	n trace f-m	לא נהק להתקיל להיות להיות היות היות להיות להיו		0.0	-	

Notes:

ppm = parts per million
bgs = below ground surface

bpf = blows per foot

End of Boring 5' bgs.

N/W = No Well Installed

(a) = Analytical sample collected

▼ = water level at completion

9.0

Driller: Eichelbergers
Drilling Method: Geoprobe 6620DT
Field Inspector: MSP / JTB

 Depth to Water:
 5.00 ft bgs

 Date of Measurement:
 12/18/08

 Project No.:
 41569313.00002

S	oil Bo	oring Log			Boring No.: SB-262 Monitoring Well No.:								
Proje	2Ct.	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin					12/18/08 12/18/08			
Surv Loca	-	N E	Ground Elevation: ft.		Inner Casir Elevation:	ng		ft.		Outer Elevat	Casing ion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_		Asphalt Dk. Gray f-c sil	ty SAND & f-c ang	g. GRAVEL (I	Dry)	altan			0.0	-			
_		Dk. Gray f-c sil	ty SAND & f-c ang	g. GRAVEL (S	aturated)	արերությունը ու Մարդարիում Մարդարիում Մարդարիում Մարդարիում հայուրանում է Մարդարիում Մարդարիում Մարդարիում Մար Մարդարիում Մարդարիում Մարդարիում Մարդարիում Մարդարիում Մարդարիում Մարդարիում Մարդարիում Մարդարիում Մարդարիում			686	▼ -			
5—			End of Borir	ng 5' bgs						_			
_										-			
_										_			
	= parts	s per million w ground surfac	-	ows per foot Well Installe						sample of	collected bletion		
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date (leas	sur	Water: ement: ct No.:	1	3.00 ft bgs 2/18/2008 69313.00002		

SB-263	
No.	
URS	

Soil B	Soring Log			Boring No.: SB-263 Monitoring Well No.:							
Project:	The Dow Chen Philadelphia, F	Date Started: Date Finished:						12/16/08 12/16/08			
Survey _ocation:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_				Outer (Elevati	_	
DEPTH, ft. ELEVATION (FT ABOVE MS)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
	Asphalt Dk. Brown f-c	SAND, w/ f-c ang.	gravel (Dry)					0.0	-		
_								0.0	_		
_	Gray & Dk. Gr "mustard yellov	ay f-c SAND, w/ f-w" decayed wood fi	c ang. gravel & rags (Wet)	intermittent				0.0	-		
	Brown coarse S	SAND, w/ fine ang.	gravel (Satura	 ted)				0.0	<u>Ā</u>		
-		End of Borin	ng 5' bgs								
									-		
									_		
	ts per million ow ground surfac	_	ows per foot Well Installe	ed				-	sample c		
-	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date		leas	sure	Water: ement: ct No.:	12	.50 ft bgs 2/16/2008 59313.00002	

Se	oil Bo	oring Log							SB-26 ell No		
Proje	2 01 .	The Dow Chem Philadelphia, P		Date Started: 12/16/08 Date Finished: 12/16/08							
	Survey N Ground Location: E Elevation:			ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—————————————————————————————————————		Black, f-c SANI	D, w/ ang. gravel (I SAND, w/ ang. gr D, w/ ang. gravel & End of Boring	brick frags (N	Moist)			na	0.0 0.0 0.0	▼	collected
	_	per million w ground surface	bpf = blow $e N/W = No$	ws per foot Well Installe							collected apletion
	Driller:EichelbergersDepth to Water:4.50 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:12/16/2008Field Inspector:MSP / JTBProject No.:41569313.00002										

Soil B	Soring Log			_			SB-265 'ell No.			
Project:	The Dow Chem Philadelphia, P		Date Sta							
Survey Location:	N E			Inner Casi		ft.		Outer (Elevati	_	
DEPTH, ft. ELEVATION		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		ID w/ med. ang. gr	. •		e de la companya de l De se de la companya			51.4 1.1	-	
		D, w/ med. ang. gr orted, med. SAND			ender der der der der der der der der der			0.0	_ Ā -	
	Black, f-c SANI	D & GRAVEL (Sa	aturated)							
5		End of Borin	ng 5' bgs.						-	
	ts per million ow ground surfac		ows per foot o Well Installe	d .				-	sample c	
	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620D MSP / JTB	OT	Date		leas	sur	Water: ement: ct No.:	12	.00 ft bgs 2/19/2008 59313.00002

22-266	1
N	
1 0 0	

S	oil B			_			SB-26 ell No				
Proje	ect:	The Dow Chen Philadelphia, P		al Company			d: ed:			1/5/09 1/5/09	
Survey Location:		N E	Ground Elevation:	ft.	Inner Casir Elevation:	_				Outer Elevat	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Gray m-c ang. G Brown f-c SAN	GRAVEL (Dry) D & med. ang. GR	AVEL (Moist)					0.0		
		Brown well sort	ted soft med. SAN	D (Moist)		, pr			0.0		
_			ID & m-c ang. GRA		 				0.0	▼ -	
_		Concrete								-	
5—		Brown well sor	ted soft med. SAN End of Borin	D (Moist) ng 5' bgs						_	
_										_	
_										-	
_										-	
	= parts	s per million ow ground surfac	_	ows per foot Well Installe					-	sample at comp	collected pletion
	Driller: Eichelbergers Drilling Method: Geoprobe 6620DT Field Inspector: JTB / MC					_	1eas	sur	Water: ement: ct No.:		3.00 ft bgs 1/5/2009 69313.00002

S	oil Bo	Boring No.: SB-267 Monitoring Well No.:									
Proje						12/18/08 12/18/08					
Surv	ey ation:	N E	Ground Elevation:	Inner Casing Elevation: ft.					Outer Elevat	Casing ion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_	-	Asphalt Brown to Reddi and some clay (sh Brown f-c silty Dry) (strong odor)	SAND, with so	ome f-c ang.,				0.0 4.0	-	
_		Brown to Reddi and some clay (sh Brown f-c silty moist) (strong odor	SAND, with so (Saturated at	ome f-c ang., 5' bgs)				239 2788	-	
5—			End of Boring	g 5" bgs.			-			-	
_										-	
	= parts	per million y ground surfac	-	ws per foot Well Installe	d :					sample of	collected bletion
		Driller:	Eichelbergers Geoprobe 6620D' MSP / JTB	<u>Т</u>	Date		Лea	sur	Water: ement: ct No.:	1	5.00 ft bgs 2/18/2008 69313.00002

SB-268	
No.	
URS	

Soi	il Bo	oring Log	Boring No.: SB-268 Monitoring Well No.:									
Projec	Υ.	The Dow Chem Philadelphia, P			Date Sta Date Fir				1/7/09 1/7/09			
Survey Location	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	-				Outer Elevati	Casing ion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Black f-c SANI frags (Dry)	O & f-c ang. GRAV	/EL, w/ interm	ittent brick				0.0	_		
-		Black f-c SANI frags (Moist)	O & f-c ang. GRAV	EL, w/ interm	ittent brick				0.0	_		
									0.0	-		
									0.0	-		
5—		Brown fine SAI	ND, w/ f-c ang. gra	vel (Moist)		0 0			0.0	_		
_		Black fine SAN	D, w/ f-c ang. grav	rel (Saturated)						_		
_			End of Boring	g 10' bgs						_		
	parts	s per million w ground surfac	_	ws per foot Well Installe	ed					sample c		
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	<u>T</u>	Date	_	leas	sure	Water: ement: ct No.:		.00 ft bgs 1/7/2009 59313.00002	

S	Boring No.: SB-269 Monitoring Well No.:										
Project: The Dow Chemical Company Philadelphia, PA					Date Sta Date Fin						
	Survey N Ground Location: E Elevation: ft.				Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)			LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
5—		Red BRICK frag Lt. Brown f-m S	gments (Moist) SAND, w/ intermitte End of Boring	 		在1000年代,1000年代,1000年代,1000年代,1000年度日本100年度,1000年代,				- - -	
	= parts	per million w ground surfac	bpf = blow e N/W = No	vs per foot Well Installe	d s					sample at com	collected pletion
		Driller: Method: aspector:	Eichelbergers JTB / MC		Date o		1ea	sur	Water: ement: ct No.:		5.00 ft bgs 098083.00003

So	Boring No.: SB-270 Monitoring Well No.:											
Proje	v∩t.	The Dow Chem Philadelphia, P	nical Company A		Date Sta Date Fin					1/9/09 1/9/09		
Surv	rvey N Ground Elevation: ft.				Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_		Asphalt Black med. den (Dry to Moist)	se, f-c SAND, w/ f-	gravel and b	rick frags				0.0	_		
_									0.7	_		
_									0.0	-		
_		Black med. den: (Saturated)	se, f-c SAND, w/ f-	gravel and b	rick frags				1.7	Ţ		
5—			End of Boring	g 5' bgs						_		
_										-		
	= parts	per million w ground surfac	bpf = blow $e N/W = No$	vs per foot Well Installe						sample at com	collected pletion	
	Driller: Eichelbergers Depth to Water: 4.50 ft bgs Drilling Method: Date of Measurement: Field Inspector: JTB / MC Project No.: 19998083.00003											

Soil I	Boring Log		Boring No.: SB-271 Monitoring Well No.:							
Project:	Date Sta Date Fin									
Survey Location	Survey N Ground Location: E Elevation: ft.			Inner Casi Elevation:	ng	ft.		Outer Elevat	Casing tion: ft.	
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
	Asphalt Gray hard, f-c	SAND & f-c GRAV	ĒL (Dry)				0.0			
	Black f-m SAND, w/ intermittent ang. & subrounded gravel (Moist) Brown to Lt. Brown med. dense, f-m SAND, w/ ang. subrounded gravel (Moist)									
	Black med. de (Moist)	ense, f-c SAND, w/ f-	m gravel and	brick frags			0.0			
							0.0	_		
5	Black med. de	ense, f-c SAND, w/ f-	gravel and	brick frags	<i>I</i>		0.0	<u>*</u> _		
	(Saturated)	End of Boring	g 5' bgs	J						
								_		
								_		
								_		
	rts per million low ground surfa	bpf = blow $N/W = No$	ws per foot Well Installe	ed			-	sample	collected pletion	
	Driller: Eichelbergers Depth to Water: 5.00 ft bgs Drilling Method: Date of Measurement: Field Inspector: JTB / MC Project No.: 19998083.00003									

Sc	oil Bo		Boring No.: SB-272 Monitoring Well No.:								
Proje	CT'	The Dow Chem Philadelphia, P			Date St Date Fi					1/8/09 1/8/09	
Surve	rvey N Ground cation: E Elevation: ft.		ft.	Inner Cas Elevation:	_		ft.		Outer Elevat	Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_			, w/ med. ang. grave nse, clayey f-c SAN		subrounded				0.0	_	
_									0.0	-	
									0.0	-	
5—									0.0		
_		L	ilty CLAY (Wet)						0.0		
_		Lt. Brown med.	dense, silty CLAY	(Wet)					0.0	-	
_									0.0	-	
		Black med. dens (Saturated)	se, f-c SAND, w/f- End of Boring 10'b;	c subrounded	ang. gravel				0.0	Ā	
	= parts	per million w ground surfac	bpf = blow $e N/W = No$	vs per foot Well Installe	d					sample at comp	collected pletion
		Driller: Method:	Eichelbergers JTB / MC		Date		1eas	sur	Water: ement: ct No.:		9.50 ft bgs 98083.00003

S	oil Bo	Boring No.: SB-274 Monitoring Well No.:										
Proje	2CT'	The Dow Chem Philadelphia, P			Date Sta Date Fin					1/7/09 1/7/09		
Surv Loca	ey ation:	N E	Ground Elevation:	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Dk. Brown to B rounded & ang.	lack, med. dense, f gravel. (Moist)	F-m SAND, w/	intermittent				0.0	-		
Dk. Brown to Black, med. dense, f-m SAND, w/ intermittent rounded & ang. gravel. (Saturated)												
			D, w/ f-m ang. gra			o						
5—		Dk. Red f-c SAI	ND, w/ f-m ang. gr End of Borin		<u>1) </u>					_		
_										-		
_										-		
_										_		
	= parts	per million w ground surface	-	ws per foot Well Installe					-	sample at comp	collected pletion	
	_	Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date of		1eas	sur	Water: ement: ct No.:		3.00 ft bgs 1/7/2009 69313.00002	

So 	oil Bo	ring Log				_			SB-27 ell No		
Proje	CT.	Γhe Dow Chem Philadelphia, P			Date Sta Date Fin					1/7/09 1/7/09	
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Dk. Brown med (Moist)	dense silty f-c SA	ND, w/ f-m ro	 unded gravel				0.0	-	
		(Moist)	dense, silty f-c SAN 0, w/ f-c ang. gravel		inded gravel				0.0	Ĩ	
	= parts	per million v ground surface	bpf = blov e N/W = No		d S					sample	collected pletion
Driller:EichelbergersDepth to Water:4.50 ft bgsDrilling Method:Date of Measurement:Field Inspector:JTB / MCProject No.:19998083.00003											

S	oil Bo	oring Log								SB-27 ell No	
Proje	v∩t.	The Dow Cher Philadelphia, I	nical Company PA		Date Sta Date Fin					1/9/09 1/9/09	
Surv	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion:
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D			LITHOLOGY		SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Gravel Concrete Lt. Brown med	. dense, clayey f-c S	AND, w/ f-m	gravel				0.0	-	
_		(Moist) Dk. Brown har rounded gravel	d, clayey f-c SAND, (Wet to Saturated)	w/ f-c ang. su	brounded &				0.0	-	
_									0.0	-	
_									0.0	Ā	
5—			End of Boring	3 5' bgs		.*. (-	
_										_	
_										_	
	= parts	per million w ground surfac	bpf = blow $ce N/W = No$	vs per foot Well Installe						sample at com	collected pletion
	rilling Field Ir		Depth to Water: 4.50 ft bgs Date of Measurement: Project No.: 19998083.00003								

Sc	oil Bo	oring Log					_				80/TW-55S o.: TW-55S
Proje	Ct.	The Dow Chem Philadelphia, P			Date Sta Date Fire					1/8/09 1/8/09	
Surve	-	N E	Ground Elevation:	ft.	Inner Cas	_		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_			& f-c GRAVEL (-			0.0	= = =	Flush Mount Casing set in Concrete Granular Bentonite and Portland Cement Grout
			ayey coarse SAND	-					0.0		Bentonite Pellets
		Brown dense co	oarse SAND, w/f-c	e gravel (Moist)	0 (0.0		# 2 Sand Pack & 2' Sch. 40 PVC Riser 2' Sch. 40 PVC 0.20 Slo Screen
5—		Brown dense co frags (Saturated	arse SAND, w/ f-c	e gravel & inter	mittent brick						
_		Gray soft, low -	med. plas. micace	ous silty CLAY	Y (Saturated)					-	
		Gray stiff - very (Saturated)	stiff, low - med. p		silty CLAY					_	
Notes):		End of Borin	g 10 bgs		<i>V////</i>					
	_	s per million w ground surfac	-	ws per foot Well Installe	ed				-	_	e collected npletion
	_	Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date		leas	sure	Water: ement: ct No.:		3.00 ft bgs 1/8/2009 569313.00002

S	oil Bo	oring Log					_		SB-281 /ell No	
Proje	2 ∩1.	The Dow Chem Philadelphia, P			Date Sta Date Fin				1/9/09 1/9/09	
Surv Loca	ey ation:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft.		Outer Elevat	Casing ion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—		Black f-c SAND Black f-c SAND Red BRICK fra Black f-c SAND	dense, clayey f-c S D, w/ f-m gravel, loc D, w/ f-m gravel (Sa SAND, w/ f-m gravel	ose (Moist) ose (Saturated) turated)					▼ -	
	= parts	s per million w ground surfac	bpf = blov e N/W = No	ws per foot Well Installe					sample of	collected
		Driller: Method: nspector:	Depth to Water: 4.00 ft bgs Date of Measurement: 19998083.00003							

So	Soil Boring Log The Dow Chemical Company Philadelphia, PA						_			SB-28 'ell No	
Proje	CT.				Date Sta Date Fini					1/9/09 1/9/09	
Surv Loca		N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Oute Eleva	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Gray soft, low	plas. silty CLAY (Sa	aturated)						-	
15—		Decomposed V Gray med. stiff	VOOD debris F, low plas. silty CLA End of Boring							-	
_			Lite of Borning	, 1 <i>3</i> 0gs						-	
_										-	
Notes: ppm = parts per million bpf = blows per foot bgs = below ground surface N/W = No Well Installed									sample at com	collected pletion	
	Driller: Eichelbergers Drilling Method: JTB / MC					Depth to Water: 4.00 ft bgs Date of Measurement: 19998083.00003					

S	oil Bo	oring Log			Boring No.: SB-283 Monitoring Well No.: Date Started: 1/9/09						
Proje	2CT'	The Dow Chem Philadelphia, P			Date Sta Date Fin				1/9/09 1/9/09		
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng	ft.		Outer Eleva	Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_		Asphalt Brown med. der (Dry)	nse, f-c SAND w/f-	c ang. subrou	nded gravel			0.0	_		
Brown med. dense, f-c SAND w/ f-c ang. subrounded gravel (Moist)											
						0.0	<u> </u>				
5		Brown med. der (Saturated)	se, f-c SAND w/f-	nded gravel				-			
_			SILT (Saturated)								
Brown med. dense, f-c SAND w/ f-c ang. subrounded gravel (Saturated)											
		Gray med. dense (Saturated)	e, f-c SAND w/ f-c	ang. subround	led gravel						
	= parts	per million w ground surfac	bpf = blov e N/W = No	vs per foot Well Installe	ed :			-	sample l at com	collected pletion	
	Driller: Eichelbergers Depth to Water: 3.00 ft bgs Drilling Method: Date of Measurement: Field Inspector: JTB / MC Project No.: 19998083.00003										
		r · · · · · · ·	. = . = . = .				5				

Soil E	Boring Log				_			SB-28 'ell No		
Project:	The Dow Cher Philadelphia, I	mical Company PA		Date Sta Date Fin					1/9/09 1/9/09	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Oute Eleva	Casing tt.
DEPTH, ft. ELEVATION	(TI. ABOVE MOL)	STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
15	Decomposed V	WOOD debrisse, med. plas. micac	eous silty CLA							
	ts per million low ground surfa	bpf = blower ce N/W = No	ws per foot Well Installe						sample at com	collected pletion
	Driller: g Method: Inspector:	Eichelbergers JTB / MC				1eas	sur	Water: ement: ct No.:		3.00 ft bgs 998083.00003

So	oil Bo	oring Log				_			SB-28 ell No		
Proje	v∩t:	The Dow Chem Philadelphia, P			Date Sta Date Fin					1/8/09 1/8/09	
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Brown soft, f-c	SAND w/ f-c ang. ş	gravel (Moist)					6.4	-	
			f-c SAND w/ f-c a						0.0	Ī.	
		Black soft, f-c S	AND w/ f-c ang. g	ravel (Saturate	d)	\$! } !					
										_	
_										_	
_											
5—			End of Borin	g 5' bgs							
_										_	
_										_	
										_	
_										_	
	= parts	per million w ground surfac	_	ws per foot Well Installe	d 2					sample at com	collected pletion
D	Driller: Eichelbergers Depth to Water: 2.00 ft bgs Drilling Method: Date of Measurement:										
		nspector:	JTB / MC		Duic	J1 1V			ct No.:		998083.00003

So	oil Bo	oring Log				_			SB-28 Vell No		
Proje	MCT:	The Dow Chen Philadelphia, F	nical Company		Date Sta Date Fin					1/12/09 1/12/09	
Surv	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Gray med. dens	e, f-c SAND and f-c	GRAVEL (I	Dry)				0.0	_	
_			SAND w/ intermitte		ŕ				0.0		
_		·	clayey f-c SAND w						0.0	<u> </u>	
5— Notes		per million	End of Boring bpf = blov			(a)	= A		lytical	sample	collected
	_	w ground surfac	-	Well Installe	d y					l at com	
		Driller: Method: nspector:	Date o		1eas	sur	Water: ement: ct No.:		4.50 ft bgs 098083.00003		

Soil E	Boring Log				_		SB-286 /ell No		
Project:	The Dow Cher Philadelphia, F	nical Company PA		Date Sta Date Fin				1/9/09 1/9/09	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng	ft.		Outer Elevat	Casing tion: ft.
DEPTH, ft.		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Asphalt Gray loose, f-c	SAND & f-c GRAV	/EL (Dry)		\$,	1.7		
	Black med. der concrete frags (nse, f-c SAND & f-c (Moist)	GRAVEL w/	intermittent	3000		3.5		
_							0.0	_	
	Black med. der	nse, clayey f-c SANI	O & f-c GRAV	VEL (Moist)	0000		0.0	_	
	Black med. der (Saturated)	nse, clayey f-c SANI	O & f-c GRAV	VEL				<u>*</u>	
	ts per million	End of Boring	ws per foot				-	_	collected
bgs = be	ow ground surface	Eichelbergers	Well Installe	ed .				l at comp	
	Driller: g Method: Inspector:	Depth to Water: 4.50 ft bgs Date of Measurement: 19998083.00003							

So	oil Bo	oring Log				_		SB-28 Vell No		
Proje	2 ○1 ·	The Dow Chem Philadelphia, P			Date Sta Date Fin				1/9/09 1/9/09	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_	ft.		Oute Eleva	r Casing ition: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Lt. Brown hard, subrounded grav	, silty f-c SAND, w/ vel (Dry)	concrete frags	& f-c ang.			0.0	_	
_								0.0	_	
_								0.0	_	
		Black hard, f-c	SAND, w/ f-m grav	el (Wet)		000		0.0		
_		Black hard, f-c	SAND, w/ f-m grav	el (Saturated)				0.0	▼ -	
Notes		per million	End of Boring				= Ana	lytical	sample	collected
	rilling	Date		/leasur	Water:		4.00 ft bgs			
	rield li	nspector:	JTB / MC				Proje	ct No.:	199	998083.00003

S	oil B	oring Log				_		SB-289 /ell No.		
Proje	ect:	The Dow Chen Philadelphia, F			Date Sta Date Fin				1/5/09 1/5/09	
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft.		Outer (Elevati	_
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		(Moist) Brown f-c SAN	med. dense, f-c SA	vel (Moist)	g. GRAVEL			0.0		
5—		Brown m-c SAl	ND, soft (Saturated) End of Borin			r than than the			_	
Notes									-	
	$\begin{array}{ll} ppm = parts \ per \ million & bpf = blows \ per \ foot \\ bgs = below \ ground \ surface & N/W = No \ Well \ Installed \end{array}$								sample c	
	rilling Field I	Depth to Water: 3.00 ft bgs Date of Measurement: 19998083.00003								

So	oil Bo	oring Log		Boring No.: SB-290 Monitoring Well No.:							
Proje	CT.	The Dow Chem Philadelphia, P			Date St Date Fi					1/15/09 1/15/09	
Surve	-	ft.		Inner Casing Elevation: ft.					Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Lt. Brown med.	dense, micaceous S	GILT (Dry)					0.0	_	
_									0.0	_	
_		Black f-c SAND	o, w/ intermittent gr	avel (Dry)			7		0.0	_	
5		Red BRICK frag Brown med. der ang. gravel (Mo	ise, clayey f-m SAN	ND w/ intermit	ttent coarse				0.0	_	
_									0.0	_	
_		Brown m-c SAN	ND w/ rounded m-c	gravel (Wet)					0.0		
-		Brown m-c SAN	ated)					_			
End of Boring 10' bgs) ••••••••••••••••••••••••••••••••••••					
Notes		m om ma!!!! = "	16 1.1	C · ·		(a)		٠	14!1	1	a alla ata d
ppm = parts per million $ppm = parts per million$ $ppm = parts per$									-	_	collected pletion
		Driller:	Eichelbergers			De	pth	to	Water:		7.00 ft bgs
Drilling Method: Field Inspector: JTB / MC						Date of Measurement:					
I	Project No.: 19998083.00003										

S	oil Bo	oring Log					_		SB-29 /ell No	
Proje	. 1∩2	The Dow Chem Philadelphia, P			Date Sta Date Fin				1/15/09 1/15/09	
Surv Loca	ey ition:	Inner Casir Elevation:	ng ft.			Oute Eleva	r Casing ation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Grass Dk. Brown to B	rown clayey SILT,	w/ organics (I	Moist)			0.0		
_		Dk. Brown clay	ey f-c SAND, w/ f-	c gravel (Mois	st)			0.0	_	
_		Brown med. SA	ND, w/ f-c gravel (Moist)		0.00		0.0	_	
_		Dk. Brown m-c	SAND, w/ f-m gra	vel (Moist)				0.0	_	
5—		Dk. Brown m-c	SAND, w/ f-m gra	vel, brick frag	s (Moist)	• • • • • • • • • • • • • • • • • • • •			_	
_		Grayish Brown white silt lenses	moderately well so (Moist)	rted, med. SA	ND, w/ dense,	on de la company de la com La company de la company d			-	
_		Grayish Brown dense, white silt	moderately well so lenses (Saturated)	rted, med. SA	 ND, w/				_	
		Black well sorte gravel (Saturate	d, med. SAND, w/d) End of Boring		oarse ang.) o (
	= parts	per million w ground surface	bpf = blov e N/W = No	ws per foot Well Installe				-	sample	collected apletion
	_	Driller: Method:	Eichelbergers				Ieasu	Water:		8.50 ft bgs
]	Field Ir	ispector:	JTB / MC				Proje	ect No.:	199	998083.00003

So	oil Bo	oring Log			Boring No.: SB-293 Monitoring Well No.:							
Proje	CT.	The Dow Chen Philadelphia, P	nical Company PA		Date S Date F					1/12/09 1/12/09		
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	Screen (ppm)	WELL	WELL MATERIALS	
		Asphalt Gray med. dens	e, f-c SAND, w/ f-c	gravel (Dry)				3	3.5			
_		Lt. Brown med.	dense, f-m SAND,	w/ f-c gravel	(Dry)			4	5.2	_		
		Black med. den	sity, f-m SAND, w/	f-c gravel (Di	y)				0.0			
		Grayish Brown	f-c SAND & m-c C	RAVEL				(0.0			
5—		rounded gravel	se, f-c SAND, w/ aı	_	_							
	= parts	per million w ground surfac	$bpf = blower \\ N/W = No$	ws per foot Well Installe	d			-		sample of	collected	
	_	Driller: Method: aspector:	Eichelbergers JTB / MC		Date	De _l e of M	leas	o W uren ject	nent:		4.00 ft bgs 98083.00003	

Soil B	oring Log		Boring No.: SB-293 Monitoring Well No.:							
Project:	The Dow Cher Philadelphia,	mical Company PA		Date Sta Date Fin					1/12/09 1/12/09	
Survey Location:	N E	ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
15	Gray med. den	sity, high plas. silty		ited)						
	s per million ow ground surfa	bpf = blov $ ce N/W = No$	ws per foot Well Installe						sample at com	collected pletion
	Driller:	Eichelbergers JTB / MC				1ea	sur	Water: ement: ct No.:		4.00 ft bgs 998083.00003

Soil B		Boring No.: SB-294 Monitoring Well No.:									
Project:	The Dow Chen Philadelphia, F			Date Sta Date Fin					1/12/09 1/12/09		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
15	Gray med. dens	e, high plas. micaced		Y (Saturated)							
	s per million ow ground surfac	bpf = blov ee N/W = No	vs per foot Well Installe						sample at com	collected pletion	
Driller: Eichelbergers Depth to Water: Drilling Method: Date of Measurement: Field Inspector: JTB / MC Project No.:								6.00 ft bgs 098083.00003			

Soil B		Boring No.: SB-294 Monitoring Well No.:									
Project:	The Dow Chen Philadelphia, F			Date Sta Date Fin					1/12/09 1/12/09		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
15	Gray med. dens	e, high plas. micaced		Y (Saturated)							
	s per million ow ground surfac	bpf = blov ee N/W = No	vs per foot Well Installe						sample at com	collected pletion	
Driller: Eichelbergers Depth to Water: Drilling Method: Date of Measurement: Field Inspector: JTB / MC Project No.:								6.00 ft bgs 098083.00003			

SB-295	
No.	
RS	

S	oil Bo	oring Log	Boring No.: SB-295 Monitoring Well No.:								
Proje	ידאני.	The Dow Chem Philadelphia, P	Date Sta Date Fin			12/11/08 12/11/09					
Surv Loca	ey tion:	N E	Ground Elevation: ft.	Inner Casir Elevation:	ng	ft.	ı	Outer Casing Elevation: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_		Gray SHALE fr	D, w/ f-c ang. gravel (Wet) rags (Wet)				0.0	_			
_		Grayish Brown	f-c SAND, w/ intermittent brick	frags (Wet)			0.0	_			
_		Lt. Brown to Br	rown, f-c SAND, w/ brick frags (Wet)	음질 등로		0.0	_			
5		Lt. Brown to Br	rown, f-c SAND, w/ brick frags (Saturated)				<u> </u>			
_			End of Boring 5' bgs					_			
_								_			
_								_			
								_			

Notes:

ppm = parts per million
bgs = below ground surface

bpf = blows per footN/W = No Well Installed

(a) = Analytical sample collected

 $\underline{\mathbf{v}}$ = water level at completion

Driller: Eichelbergers
Drilling Method: Geoprobe 6620DT
Field Inspector: MSP / JTB

Depth to Water: 4.00 ft bgs

Date of Measurement: 12/11/2009

Project No.: 41569313.00002

S	oil B	oring Log					_			SB-297 /ell No		
Proje	ect:	The Dow Chem Philadelphia, P			Date Sta Date Fir					1/7/09 1/7/09		
Surv	-	N E	Ground Elevation:	4	Inner Casi Elevation:	_		f +		Outer Casing Elevation: ft.		
Loca	ation:	<u>E</u>	Elevation:	ft.	Elevation:			ft.		Elevat	ion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
			en. SAND & ang.		-	\$			0.0			
_	_	Gray med. den.	coarse SAND & C	GRAVEL (Wet)					0.0	-		
		Tan to Whitish	Tan coarse quartz	GRAVEL (Wet	<u> </u>	.°°°				_		
		Tan to Whitish Black, med. der	Tan coarse quartz (n. f-c SAND & f-m	GRAVEL (Satu ang. GRAVEI	urated) L (Saturated)	0000	,			* -		
_										_		
_	_									_		
_						3000						
5			End of Borin	ng 5' bgs								
_	_									_		
_										_		
_										_		
_										_		
	= parts	s per million ww ground surfac	-	ows per foot Well Installe	d				-	sample of	collected oletion	
			Eichelbergers Geoprobe 6620D	T	Date		1ea	sur	Water:		2.00 ft bgs 1/7/2009	
	ı iciu I	nspector:	JTB / MC				rr	oje	ct No.:	413	69313.00002	

S	oil Be	oring Log					_		SB-29 /ell No		
Proje	2€1.	The Dow Chem Philadelphia, P			Date Sta Date Fini				1/8/09 1/8/09		
Surv	ey ation:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		Asphalt Brown med. der	nse, f-c SAND & f-	c GRAVEL (N	Moist)	=======================================		0.0	_		
_					~~	= = = = = = = = = = = = = = = = = = =		0.0	<u> </u>		
_		(Saturated)	ack med. dense, f-clack med. dense, f-		ĺ				_		
_						= = = = = = = = = = = = = = = = = = =			_		
5				<u> </u>		=======================================			_		
_			End of Borin	g 5' bgs					_		
_									_		
_											
	= parts	s per million w ground surfac	bpf = blo e N/W = No	ws per foot Well Installe						collected	
		Driller: Method:	Eichelbergers JTB / MC				/leasur	Water: ement: ct No.:		2.00 ft bgs 998083.00003	
	i iciu I.		JID / MIC				11010	Ct 11U	17	770003.00003	

Soil Boring Log						Boring No.: SB-299 Monitoring Well No.:							
Proje	Project: The Dow Chemical Company Philadelphia, PA				Date Sta Date Fin					2/9/09 2/9/09			
	-				Inner Casir Elevation:	=					Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
		Asphalt Red BRICK frag	gs (Dry)						0.0				
_		Brown to tan f-r	n SAND, w/ f-c an	g. gravel (Dry)					0.0	_			
_		Black f-m SAN	D, w/ f-c ang. grave	el (Wet)					0.0	_			
		Black f-m SAN					7.2	▼ -					
End of Boring				g 5' bgs						-			
Notes: ppm = parts per million bpf = blows per foot bgs = below ground surface N/W = No Well Installed								sample l at com	collected pletion				
Driller: Eichelbergers Drilling Method: ITR / MC			Date o	_	leas	ure			4.00 ft bgs				
	Field Inspector: JTB / MC					Project No.: 19998083.00003							

S	oil Bo	Boring No.: SB-300 Monitoring Well No.:										
Proje	2CI.	The Dow Cher Philadelphia, I	mical Company PA		Date Sta Date Fin					2/9/09 2/9/09		
Surv	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	Inner Casing Elevation: ft.				Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		Asphalt Lt. Brown to B	rown SAND, w/ f-c	ang. gravel (N	Moist)				0.0	-		
· -		Lt. Brown clay	ey f-c SAND, w/ ang						0.0	¥ -		
5 —			End of Boring	g 5' bgs						-		
	= parts	per million w ground surfa	bpf = blow $ce N/W = No$	ws per foot Well Installe					-	sample at com	collected pletion	
	_	Driller: Method: spector:	Eichelbergers JTB / MC		Date o		1eas	sur	Water: ement: ct No.:		4.00 ft bgs 998083.00003	

SB-301	
No.	
URS	

So	il B	oring Log			Boring No.: SB-301 Monitoring Well No.:								
Projec	ct:	The Dow Chen Philadelphia, F								12/18/08 12/18/08			
Surve _ocati	-	N E	Ground Elevation:	ft.	Inner Cas Elevation	_		ft.		Outer (Elevati	•		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_		Asphalt Black to Brown (Dry)	to tan, f-m. silty S	AND & f-c an	g. GRAVEL				0.0 69.1	-			
+		Dk. Gray to Brc CLAY, trace f-	own to Dk. Gray f- m rounded gravel (m silty SAND, Moist) (Strong	with trace Odor)				14123594	-			
5		Dk. Gray to BrocLAY, trace f-	own to Dk. Gray f- m rounded gravel (with trace					<u> </u>			
			End of Borir	ng 5' bgs						_			
										-			
Interior										_			
_	= parts	s per million w ground surfac	_	ws per foot Well Installe	ed				-	sample c			
	_	Driller: Method: onspector:	Eichelbergers Geoprobe 6620D MSP / JTB	T	Date		1eas	sur	Water: ement: ct No.:	1	.00 ft bgs 12/18/08 59313.00002		

SB-302	
No.	
JRS	

S	oil Bo	oring Log			Boring No.: SB-302 Monitoring Well No.:							
Proje	≥C†·	The Dow Chem Philadelphia, P	• •		Date Sta Date Fin	3						
	Survey N Ground Location: E Elevation:			ft.	Inner Casin	ng		ft.		Outer Elevat	Casing ion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
		Asphalt Brown, f-c silty (Dry)	SAND & f-c ang. (GRAVEL and	BRICK frags.		: -		0.0	_		
_									0.0	_		
_									0.0	_		
_									0.0	_		
5		(Moist)	SAND & f-c ang. (JRAVEL and	BRICK frags.				9.7	_		
_									161	Ā _		
_		Ok. Gray f-c sill odor, sheen)	ty SAND, w/ f-c an	g. gravel (Satu	irated) (strong					_		
_			End of Boring	10' bgs.						_		
	= parts	per million w ground surfac	bpf = blov e N/W = No	ws per foot Well Installe	d :				-	sample of	collected bletion	
	Driller:EichelbergersDepth to Water:7.00 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:12/18/2008Field Inspector:MSP / JTBProject No.:41569313.00002											

Soil E	Boring Log		Boring No.: SB-303 Monitoring Well No.:							
Project:	The Dow Chen Philadelphia, F			Date Sta Date Fin				1/8/09 1/8/09		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi	ng	,	ft.		Outer C	_
DEPTH, ft. ELEVATION FIT ABOVE MS1)		STRATIGRAPHIC DESCRIPTION						PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	Asphalt Brown f-c SAN	D & f-c GRAVEL	(building debr	is) (Dry)				0.0	-	
								0.0	_	
								0.0	_	
5—								0.0	_	
-	Brown f-c SAN	D, w/ f-c gravel (M	loist)					0.0	_	
_	Black f-c SANI	D, w/ f-c gravel (Sa	turated)					0.0	<u>*</u>	
		End of Boring	g 10' bgs							
	ts per million ow ground surfac		ws per foot Well Installe	ed :					sample co	
P	Driller:		Depth to Water: 6.50 ft bgs Date of Measurement:					50 ft bgs		
	g Method: Inspector:		Date				ement: et No.:		8083.00003	

S	oil Bo	oring Log			Boring No.: SB-305 Monitoring Well No.:							
Proje	JCI.	The Dow Chem Philadelphia, P			Date Started: 1/8/09 Date Finished: 1/8/09							
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft	•	Outer Casing Elevation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
		Asphalt Brown f-c SAN	D, w/ f-m ang. grav	vel (Moist)				0.0				
_		Black f-c SAND	D, w/ f-c ang. grave	l (Moist)				13.5	_			
								1.6				
_		Black f-c SAND	o, w/ f-c ang. grave	I, brick frags (Moist)	0		3.2	_			
		Black to Dk. Bro	own hard, silty CL	AY, w/ f-c gra	vel (Wet)			5.4				
5—			ey coarse SAND (S			X/ X/			_			
_		Greenish Gray s	oft, CLAY (Satura	ted)					-			
_		Brown soft, CL	AY, w/ intermittent	brick frags (S	aturated)				_			
		Black soft, claye	ey coarse SAND (S End of Boring	aturated) 10' bgs								
	= parts	per million w ground surface	bpf = blo					-	sample l at com	collected apletion		
D	rilling	Driller:	Eichelbergers			_	-	Water:		5.00 ft bgs		
]	Drilling Method: Field Inspector: JTB / MC Date of Measurement: Project No.: 19998083.00003											

So	oil Bo	oring Log		Boring No.: SB-308 Monitoring Well No.:									
Proje	2Ct.	The Dow Chem Philadelphia, P									2/19/08 2/19/08		
	Survey N Ground Location: E Elevation:			ft.	Inner Casing Elevation: ft.					Outer Eleva	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_		Asphalt Brown f-m silty	SAND & f-c ang.	GRAVEL (Dr	y)				5.9 121	-			
_			y SAND (Dry) (str		e f.m				207 78.4	_			
_		rounded gravel (Dry)	ny SAND, ilac	& 1-III				21.5	-			
5—									9.3	_			
_									2.2	_			
_			ray to brown f-c si Saturated) intermi y SAND, w/ fine a een)						1.2	¥ _			
			End of Boring	g 10' bgs.									
	= parts	per million w ground surface	-	ws per foot Well Installe	d				-	sample at com	collected pletion		
	Driller:EichelbergersDepth to Water:7.50 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:12/19/08Field Inspector:MSP / JTBProject No.:41569313.00002												

-309	
SB-	
No.	
URS	

Soil B	oring Log			Boring No.: SB-309 Monitoring Well No.:						
Project:	The Dow Chem Philadelphia, P			Date Sta Date Fin				12/19/08 12/19/08		
Survey Location:	N E	Ground Elevation:	Inner Casi Elevation:	ft.		Outer Eleva	Casing tion: ft.			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
	Asphalt Brown to Dk. G	ray f-c silty SAND	& f-m ang. G	RAVEL (Dry)	란돌					
							8.4 3.1	_		
+	Brown to Dk. G GRAVEL (Dry)	ray f-c silty SAND,	w/ some f-m	ang.			5.5	_		
							81.4	_		
					المريب الأيام الإيام الإيام الإيا ولك الآيام الأيام الأيام الأيام الآيام الآيام الآيام الأيام الآيام الآيام الآيام الآيام الآيام الآيام الآيام ا		1356	_		
5	Dk. Gray f-m si (Strong odor)	Ity SAND, w/ trace	f-c ang. grave	l (Dry)			1996	_		
_							1723	_		
							1880			
+	Dk. Gray f-m sii (Strong odor)	Ity SAND, w/ trace	f-c ang. grave	l (Saturated)				▼ -		
		End of Boring	10' bgs.							

Driller: Eichelbergers
Drilling Method: Geoprobe 6620DT
Field Inspector: MSP / JTB

 Depth to Water:
 8.00 ft bgs

 Date of Measurement:
 12/19/08

 Project No.:
 41569313.00002

So	oil Bo		Boring No.: SB-310 Monitoring Well No.:									
Proje	Ct.	The Dow Chem Philadelphia, P			Date Started: 1/13/09 Date Finished: 1/13/09							
Surve Loca	-	N E	Ground Elevation:	ft.		Inner Casing Elevation: ft.					Outer Casing Elevation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_		Asphalt Brown loose, cl	ayey med. SAND (i	moist)					0.0 0.0 0.0	_		
_	 	Brown fine SAN Red BRICK fra Brown well sort		el (Moist)				0.0	_			
_							0.0	_				
5—								6.2	_			
_		Reddish Brown	med. dense, m-c S	AND (Moist)					6.9	_		
_									14.9	-		
_							9.9 74.6	_				
	= parts	per million w ground surfac	bpf = blow e N/W = No	ws per foot Well Installe	ed				-	sample at com	collected pletion	
Driller: Eichelbergers Drilling Method:						Depth to Water: 11.00 ft bgs Date of Measurement: 19998083.00003						

S	oil Bo	oring Log		Boring No.: SB-310 Monitoring Well No.:							
Proje	2Ct.	The Dow Chem Philadelphia, P			Date Sta Date Fin				1/13/09 1/13/09		
Surv	ey tion:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng	ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
		Reddish Brown gravel (Moist) Brown med. der (Saturated)		<u>*</u> -							
Grayish Brown med. dense, m-c SAND, w/ fine rounded gravel (Saturated)											
15————————————————————————————————————			End of Boring	; 15' bgs					-		
	= parts	s per million w ground surfac	bpf = blow $e N/W = No$	ws per foot Well Install	ed :				sample c		
		Driller: Method: nspector:	Eichelbergers JTB / MC		Date		l easur	Water: ement: ect No.:		1.00 ft bgs 98083.00003	

S	oil Bo	oring Log		Boring No.: SB-311 Monitoring Well No.:							
Proje	201:	The Dow Chem Philadelphia, P			Date Sta Date Fin			1/13/09 1/13/09			
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft			Outer Casing Elevation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_								1.2	_		
_		Drown for CAN	ND, w/ ang. subrour	Wat)			3.4				
			-					6.8	<u> </u>		
		Brown f-m SAN solvent odor) (S	nded gravel. (Strong							
15			1511					_			
_			End of Boring	, 13 bgs							
_											
_											
	= parts	per million w ground surfac	bpf = blow e N/W = No	ws per foot Well Install					sample	collected apletion	
Driller: Eichelbergers Drilling Method:								Water rement		13.00 ft bgs	
	Field Inspector: JTB / MC Project No.: 19998083.00003										

Project: The Dow Chemical Company Date St					_		SB-31 /ell No			
Proje	Philadelphia, PA Date Finished Survey N Ground Inner Casing							1/13/09 1/13/09		
	-	N E	Ground Elevation:	ft.	Inner Cas Elevation	_	ft.		Outer Eleva	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Grayish Brown, intermittent brice	clayey f-c SAND, kk frags (Moist)	w/ f-c ang. gra	avel &			0.0	_	
_								0.0	_	
_								0.0	_	
_								0.0	_	
5—								0.0	_	
		Brown, well son	ted, med. SAND, w	// fine gravel ((Saturated)			0.0	_	
_									-	
_			End of Boring	g 10' bgs					_	
Notes		per million	bpf = blov	ws ner foot		(a)	= Ana	lytical	samnle	collected
		w ground surfac		Well Installe	ed				l at com	
	:11:	Driller:	Eichelbergers		D.			Water		6.50 ft bgs
		Method:	JTB / MC		Date	e of M		ement: ct No.:		998083.00003

So	oil B	oring Log					_			SB-31 ell No	
Proje	ect:	The Dow Chem Philadelphia, P			Date Sta Date Fin					12/19/08 12/19/08	
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Dk. Gray f-c silt	ty SAND & f-c ang	g. GRAVEL (I	Dry)				1.9 4.0	_	
_		Dk. Gray f-c sil	ty SAND (Dry) gra	ading to:					390	_	
_		Lt. Brown sandy	y SILT (Dry)						1166 525		
5		Red, BRICK fra							323		
<i>3</i>		odor)	ty SAND & fine at						615	<u> </u>	
_		Dk. Gray f-c silt (strong odor)	ty SAND & fine an	ng. GRAVEL (Saturated)					-	
_		Dk. Gray sandy	CLAY, w/ brick f)					_	
	= parts	s per million	bpf = blo	ows per foot Well Installe					-	sample at com	collected pletion
	_	Driller: Method: Inspector:	Eichelbergers Geoprobe 6620D MSP / JTB	<u>T</u>	Date (of M	leas	sur	Water: ement: ct No.:	1	6.00 ft bgs 12/19/2008 669313.00002

So	oil Bo	oring Log						SB-310 /ell No			
Proje	v∩t.	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin					1/15/09 1/15/09	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.		Outer Elevat	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_			SAND w/f cong		wol	\$ \frac{1}{2} \fra			0.0	_	
_		intermittent brid	SAND, w/ f-c ang. s ck frags (Moist)	ubrounded gr	avei,				0.5	-	
_		(moist)	rown clayey m-c SA						0.0	_	
			ND, w/m-c rounded						0.0	<u> </u>	
	= parts	per million w ground surfac	bpf = blov		ad v				-	sample of at comp	collected
D	rilling	Driller: Method:	Eichelbergers JTB / MC			De	pth Ieas	to sur	Water: ement: ct No.:		4.00 ft bgs 98083.00003
		<u> </u>						J			

So	oil Bo			_			SB-31 ell No				
Proje	CT'	The Dow Cher Philadelphia, I	mical Company PA		Date Star Date Fini					1/15/09 1/15/09	
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Oute Eleva	r Casing ition: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5			SAND, w/ f-c ang. g SAND, w/ f-c ang. g End of Boring	ravel (Saturate	ed)				0.0 0.0 0.0	V -	
	= parts	per million	bpf = blov								collected
Dr	rilling	Driller: Method: spector:	Eichelbergers JTB / MC	Well Installed		Dej	oth Ieas	to '	Water: ement:		4.00 ft bgs 998083.00003

S	oil Bo	oring Log					_		SB-31 /ell No	
Proje	יז אב	The Dow Chem Philadelphia, P			Date Sta Date Fin				1/13/09 1/13/09	
	Survey N Ground Incocation: E Elevation: ft. El					ng	ft.		Oute Eleva	r Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Brown to Lt. Brown to	own f-c SAND, w/	f-c ang. subro	 ounded gravel			0.0	_	
_								0.0		
_		Brown to Lt. Br (Wet)	own f-c SAND, w/	f-c ang. subro	ounded gravel			0.0	_	
_		Brown clayey f-	c SAND, w/ f-c an	g. subrounded	gravel (Wet)			0.0	_	
5—		Brown clayey f- (Saturated)	c SAND, w/ f-c an	g. subrounded	gravel			0.0	<u>*</u>	
_		Grayish Brown	f-c SAND, w/ f-c g	ravel (Saturat	ed)				-	
		Black f-c SAND	D, w/ f-c gravel (Sal	 turated)					_	
			End of Boring	g 10'bgs		000				
	= parts	per million w ground surface	bpf = blo $e N/W = No$	ws per foot Well Installe	ed <u>y</u>			-	sample	collected apletion
D	Prilling	Driller:	Eichelbergers		Date o		_	Water:		5.50 ft bgs
]	Field Ir	nspector:	JTB / MC				Proje	ect No.:	199	998083.00003

Sc	oil Bo	oring Log					_			SB-31 'ell No	
Proje	CT'	The Dow Chen Philadelphia, P	nical Company A		Date Sta Date Fin					1/13/09 1/13/09	
Surve	-	N E	ft.	Inner Casi Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	(Jdq) LdS	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Black f-c SANI	D, w/ f-m gravel (M	oist)					0.0	-	
_		Brown well sort	ted, med. SAND, w	/ fine rounded	gravel (Wet)				0.0	-	
_									0.0	_	
_									0.0	-	
5		Brown well sort frags (Saturated	ted, med. SAND, w	fine rounded	gravel, brick				0.0	<u>_</u>	
			End of Boring	10' bgs							
	= parts	per million w ground surfac	bpf = blov e N/W = No	ws per foot Well Installe	d :					sample at com	collected pletion
		Driller: Method:	Eichelbergers JTB / MC		Date		leas	sur	Water: ement: ct No.:		5.00 ft bgs 098083.00003

Sc	oil Bo	oring Log			_			SB-32 ell No			
Proje	CT.	The Dow Chem Philadelphia, P		Date Sta Date Fir					1/15/09 1/15/09		
Surve	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Asphalt Black f-c SANI	D, w/ f-m gravel (Mo	oist)		0000			0.0		
		Dk. Brown med	l. dense, low plas. n	med. sandy CL	AY (Moist)				0.0		
									0.0		
_		Brown med. der	nse, low plas. med. s	sandy CLAY ((Moist)				0.0		
5—									0.0		
		Brown well sort	 ted, med. SAND (M	 Joist)					0.0	_	
_		Brown wen sort	.cu, med. 511 (2 (m	coust)					0.0	_	
_		Grayish Brown	well sorted, med. S.	 AND (Moist)					0.0	-	
									0.3	¥ _	
		Grayish Brown gravel (Saturate	well sorted, med. S. d)	AND, w/ m-c	rounded					_	
	= parts	per million w ground surfac	bpf = blow $e N/W = No$	ws per foot Well Installe	d				-	sample at com	collected pletion
D	rilling	Driller:	Eichelbergers		Date				Water:		9.00 ft bgs
I	Field In	spector:	JTB / MC				Pro	oje	ct No.:	199	998083.00003

Soil I	Boring Log	Boring No.: SB-320 Monitoring Well No.:								
Project:	The Dow Chem Philadelphia, P			Date Sta Date Fin					1/15/09 1/15/09	
Survey Location	N : E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
15	Brown to Dk. B (Saturated)	rown f-c SAND, water, med. SAND (Sand of Boring	coarse ang. g						-	
	rts per million low ground surfac	bpf = blov e N/W = No	ws per foot Well Installe						sample at com	collected pletion
	Driller: ng Method: Inspector:	Eichelbergers JTB / MC		Date o	_	leas	sur	Water: ement: ct No.:		9.00 ft bgs 998083.00003

Soil	І Во	ring Log					_		SB-32 /ell No	
Project		The Dow Chem Philadelphia, P			Date Sta Date Fin				1/26/09 1/26/09	
Survey Location	ocation: E Elevation: ft. Elevation:						ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Asphalt Brown f-c SANI (Moist)	D, w/ f-c ang. grave	el, brick & coi	ncrete frags			9.7	-	
		Brown f-c SANI (Saturated)	D, w/ f-c ang. grav	el, brick & con	ncrete frags			32.3	<u>_</u> -	
5 - - -			End of Borin	ig 5'bgs					-	
		per million v ground surface	-	ws per foot Well Installe	ed 2				sample l at com	collected pletion
		Driller: Method: spector:	Eichelbergers JTB / MC		Date		l easu	Water: rement: ect No.:		2.00 ft bgs 98083.00003

So	Soil Boring Log Boring No Monitoring The Dow Chemical Company Date Started:										
Proje	nject: The Dow Chemical Company Date Started: Philadelphia, PA Date Finished:									1/26/09 1/26/09	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Brown f-c SAN	ID, w/ f-c gravel, bri	ck & concrete	frags (Moist)				0.3		
_									0.0	-	
_									0.0	_	
5—		Brown f-c SAN (Saturated)	ID, w/ f-c gravel, bri End of Boring		frags				0.0	<u> </u>	
_										_	
_										_	
_										_	
	= parts	per million v ground surfac	bpf = blov ce N/W = No	vs per foot Well Installe						sample at com	collected pletion
		Driller: Method: spector:	Eichelbergers JTB / MC				1eas	sur	Water: ement: ct No.:		4.50 ft bgs 098083.00003

So	oil Bo	oring Log			_			SB-32 'ell No			
Proje	CT.	The Dow Chem Philadelphia, P	nical Company A		Date Sta Date Fin					1/26/09 1/26/09	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casin	ng		ft.		Outer Eleva	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Grayish Brown	f-c SAND, w/ f-m g	gravel (Wet)					0.0	_	
-		Grayish Brown	f-c SAND, w/ f-m ş	gravel (Saturat	ed)						
		Brown f-m SAN	ND, w/ f-c ang. subr	ounded gravel	(Saturated)					-	
_		(Saturated)	D, w/ rounded grave							_	
Notes						<u> </u>	1		_		
	_	per million w ground surfac	$ bpf = blow \\ e N/W = No $	ws per foot Well Installe	d :				-	sample at com	collected pletion
	_	Driller: Method: spector:	Eichelbergers JTB / MC	_	Date		/lea	sur	Water: ement: ct No.:		2.00 ft bgs 998083.00003

S	oil B	oring Log					_			SB-32 ell No	
Proje	ect:	The Dow Chem Philadelphia, P			Date Standard					2/19/09 2/19/09	
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Dk. Brown f-c S	SAND, w/ f-c ang.	gravel (Dry)					0.0	_	
_									0.0	-	
_		Dk. Brown f-c S	SAND, w/ f-c ang.	gravel (Wet)					0.0	_	
5—			SAND, w/ f-c ang.						0.0	▼	
_		Dr. Gray to Dra	car e si a se car	o unig. Great v E	2 (Suturuted)				0.0	_	
_		Black slightly cl decayed slightly intermittent yell	layey f-c SAND, w fiberous "cardboa owish green "glass	y/f-c ang. grav rd like" materi. like" material	el & some al, (Saturated)	• • • • • • • • • • • • • • • • • • • •			2.0	-	
_									0.0	_	
	= parts	s per million w ground surfac	_	ws per foot Well Installe	ed				-	sample l at com	collected pletion
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	Τ	Date	_	leas	sur	Water: ement: ct No.:	1	4.50 ft bgs 12/19/2008 669313.00002

Sc	oil B	oring Log					_			SB-324 Vell No		
Proje	ct:	The Dow Chem Philadelphia, P	PA Date Started: 2/19/09 Date Finished: 2/19/09									
	Survey N Ground Location: E Elevation: ft.			ft.	Inner Casi Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_		Brown to Black	well sorted coarse	SAND (Satura	ated)				0.0	-		
_		Grayish Black f (Saturated)	-c SAND, w/ f-c ar	ng. gravel & bi	ick frags				0.0	-		
15		Gray med. stiff, (Saturated)	med. to low plas. 1		CLAY				0.0	_		
_			End of Boring	g 15 ogs						_		
_										_		
_										_		
	= parts	s per million ow ground surfac		ws per foot Well Installe	ed .				-	sample at comp	collected pletion	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D' JTB / MC		Date		1eas	sur	Water: ement: ct No.:	1	4.50 ft bgs 12/19/2008 69313.00002 Sheet 2 of 2	

S	oil Bo	oring Log			Boring No.: SB-325 Monitoring Well No.:							
Proje	201.	The Dow Chem Philadelphia, P			Date Sta Date Fin	9						
	Survey N Ground Location: E Elevation: ft.					er Casing vation: ft.					r Casing ation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Dk. Brown to B	lack f-c SAND, w/	f-c GRAVEL	(Moist)				0.0	_		
_									0.0	_		
_		Black med. den.	well sorted SILT	(Moist)					0.0	-		
_		Black f-c SAND	0 & f-c ang. GRAV	YEL (Wet)		0000			0.0	_		
5—		Black f-c SAND	& f-c ang. GRAV	EL (Saturated)				0.0	<u> Ť</u> –		
_									0.0	_		
_		(Saturated)	ow silty SAND, w/ted)	_	_				23.9	_		
_			Refusal at	orick frags (Sat					0.0	_		
Note:		per million	bpf = blo	ws per foot		(a)	= A	.na	lytical	sample	collected	
D	Prilling :	Driller: Method: Ospector:	Eichelbergers Geoprobe 6620D JTB / MC	Well Installe Γ		Dej	pth Ieas	to sur	Water: ement:		5.00 ft bgs 12/19/2008 569313.00002	

S	oil B	oring Log					_			SB-32 /ell No			
Proje	⊃C†·	The Dow Chem Philadelphia, P.			Date Sta Date Fin					2/18/09 2/18/09			
	Survey N Ground ocation: E Elevation: ft.				Inner Casin Elevation:	ng		ft.			Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_		Asphalt Dk. Grayish Bla (Dry)	ck f-m SAND, w/ i	ntermittent m	-c ang. gravel				0.0	_			
_									0.0	_			
_									5.0	_			
_		Dk. Grayish Bla (Moist)	ck f-m SAND, w/ i	 ntermittent m	-c ang. gravel				0.0	_			
5—		Black den. to ve Black m-c SAN	ry den. SILT (Mois D (Saturated)	<u>.tt)</u>					0.0	<u>*</u> _			
_			med. plas. silty CL e" fiberous materia						117	_			
_		Black m-c SAN	D, w/ intermittent s	mall brick fra	gs (Saturated)				0.0	_			
_									0.0	_			
Notes	6.								0.0				
ppm	= parts	s per million w ground surface	$bpf = blow \\ N/W = No$	vs per foot Well Installe	d :				-	_	e collected apletion		
	_	Driller: C	Eichelbergers Geoprobe 6620DT JTB / MC	<u> </u>	Date	_	leas	sur	Water: ement: ct No.:		5.00 ft bgs 2/18/2009 569313.00002		

SB-326	
No.	
JRS	

So	oil B	oring Log			Boring No.: SB-326 Monitoring Well No.: Date Started: 2/18/09							
Proje	ect:	The Dow Ch Philadelphia	emical Company , PA		Date Started: 2/18/09 Date Finished: 2/18/09							
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casing ft. Elevation: ft.						r Casing ition: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
									4.2			
_									8.5	_		
_									13.4	_		
_		Gray soft, lo	w-med. plas. micaceou	s silty CLAY	(Saturated)				0.0	_		
15									0.0	_		
15			End of Boring	; 15' bgs								
_										_		
_										_		
_										_		
_										_		
	= part	s per million ow ground sur	bpf = blow face $N/W = No$	ws per foot Well Installe					-	_	collected	
		Driller: _ Method: _ nspector:	Eichelbergers Geoprobe 6620D7 JTB / MC	Γ	Date of		Лea	sur	Water: ement: ct No.:		5.00 ft bgs 2/18/2009 569313.00002	

So	oil Bo	oring Log		Boring No.: SB-327 Monitoring Well No.:								
Proje	CT.	The Dow Chen Philadelphia, F			Date Started: 2/18/09 Date Finished: 2/18/09							
Surv	-	N E	Ground Elevation:	ft.	Inner Casing Elevation: f					Outer Eleva	Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
_		Asphalt Dk. Brown f-c	SAND, w/ f-c ang.	gravel (Dry)					0.0	-		
_									0.0	-		
_									0.0	-		
_									0.0	-		
5—		Black f-c SANI	O (Moist)						10.2	_		
_		Black, soft, low & "foil like" ma	to med. plas. silty aterial (Moist)	CLAY, w/ fibe	erous material				10.0	▼ -		
_		Black PC SAINI	(Gaturateu)						6.8	-		
_									0.0	-		
NI 4												
	= parts	s per million w ground surfac		ws per foot Well Installe					-	sample at com	collected pletion	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	<u>T</u>	Date o		leas	sur	Water: ement: ct No.:		7.00 ft bgs 2/18/2009 569313.00002	

Soil Boring Log Boring No.: SB-327 Monitoring Well No.												
Project:	The Dow Che Philadelphia,	mical Company PA		Date Started: 2/18/09 Date Finished: 2/18/09								
Survey Locatio	N n: E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.		Outer Casing Elevation: ft.			
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_								0.0				
								0.0				
								0.0				
								0.0				
1.5								0.0				
15		End of Boring	g 15' bgs									
_									_			
									_			
Notes:												
ppm = p	oarts per million below ground surfa		ws per foot Well Installe	ed					sample of	collected oletion		
	Driller: ing Method:	Eichelbergers Geoprobe 6620D	<u>T</u>	Date		1ea	sur	Water:	: 2	7.00 ft bgs 2/18/2009		
Fie	ld Inspector:	JTB / MC				Pr	oje	ct No.:	415	69313.00002		

SB-328	
No.	
JRS	

S	oil B	oring Log			Boring No.: SB-328 Monitoring Well No.: Date Started: 2/23/09							
Proje	ect:	The Dow Che Philadelphia,	mical Company PA		Date Started: 2/23/09 Date Finished: 2/23/09							
	Survey N Ground Location: E Elevation: ft.		ft.	Inner Casi Elevation:	_		ft.		Outer Casing Elevation: ft.			
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)			LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
		AsphaltBrown to Dk.	Brown f-c SAND, w/	f-c gravel (D	ry)				0.0			
_								0.0	_			
_									0.0	_		
		Proven to Dk	Brown f-c SAND, w/	(f a graval (M	oist Wat)				0.0	_		
5—		BIOWII to Dk.	BIOWII I-C SAIND, W	1-c graver (IVI	oist - wet)				17.1 31.3	_		
_		Brown to Dk.	Brown f-c SAND, w/	f-c gravel (Sa	nturated)				12.2	<u> </u>		
_									149	_		
_									81.8			
									14.4			
	= part	s per million ow ground surfa	bpf = blow $N/W = No$	vs per foot Well Installe	d				-	sample l at com	collected pletion	
	rilling Field I		Date		1ea	sur	Water: ement: ct No.:		6.00 ft bgs 2/23/2009 569313.00002			

So	il B	oring Log			Boring No.: SB-328 Monitoring Well No.:							
Proje	ct:	Date St					2/23/09 2/23/09					
Surve	-	N E	Ground Elevation:	ft.	Inner Cas Elevation:	_	ft.			Outer Elevati	Casing ion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
									5.7	_		
_									12.2	_		
									17.1	_		
_									51.6	_		
15—		Gray to Dk. Gra (Saturated)	y soft, low plas. m	icaceous silty	CLAY				31.5 2.7	_		
			End of Boring	g 16' bgs						_		
										_		
_										_		
										-		
	= parts	s per million w ground surface		ws per foot Well Installe	d					sample c		
	illing ield I	Depth to Water: 6.00 ft bgs Date of Measurement: 2/23/2009 Project No.: 41569313.00002					2/23/2009					

So	oil B	oring Log					_			SB-329 ell No		
Proje	ct:	The Dow Cher Philadelphia, F	nical Company PA		Date Started: 2/23/09 Date Finished: 2/23/09							
Surve	-	N E	Ground Elevation:	ft.	Inner Casin Elevation:	ng		ft.			Outer Casing Elevation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
		Asphalt Brown to Dk. I	Brown f-c SAND, w	// f-c ang. grave	el (Moist)				0.0	-		
_									0.0	-		
_									0.0	-		
-		Brown to Dk. I	Brown f-c SAND, w		el (Wet)				> 1000	-		
5	·		clayey silty fine SA						1349	<u> </u>		
_		Black f-c SAN	D & f-m GRAVEL	(Saturated) (Po	oor Recovery)				1277	-		
					•				889	-		
_									85.1	-		
	= parts	s per million	_	ws per foot Well Installe	d :	(a)			-	sample at comp	collected pletion	
Dr	rilling	Driller:	Eichelbergers Geoprobe 6620D JTB / MC			Dej	pth Iea	to sur	Water: ement: ct No.:	4	5.00 ft bgs 2/23/2009 69313.00002	

SB-329	
No.	
URS	

Soil E	Boring Log	Boring No Monitoring	.: SB-329 g Well No.:	
Project:	The Dow Chemical Company Philadelphia, PA	Date Started: Date Finished:	2/23/09 2/23/09	

Filliadelpilla, FA				Date i illistied. 2/23/09						•	
Surv Loca		N E	Ground Elevation:	ft.							r Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DE	SCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
15—		Gray soft, lov	v plas, micaceous silty 0 End of Boring 1		rated)	罗尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼尔曼			46.6	-	

Notes:

ppm = parts per million
bgs = below ground surface

bpf = blows per foot

(a) = Analytical sample collected

N/W = No Well Installed Ψ = water level at completion

Driller: Eichelbergers

Drilling Method: Geoprobe 6620DT

Field Inspector: JTB / MC

 Depth to Water:
 5.00 ft bgs

 Date of Measurement:
 2/23/2009

 Project No.:
 41569313.00002

SB-330	
No.	
URS	

Soil B	oring Log			Boring No.: SB-330 Monitoring Well No.:							
Project:	The Dow Cher Philadelphia, I	mical Company									
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.	
DEPTH, ft. ELEVATION (FT. ABOVE MSL)			LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
	Asphalt Dk. Brown to I brick frags (Mo	Black f-c SAND, w/	f-c ang. grave	, intermittent				5.2			
								7.4	_		
_								17.4	_		
+	Black f-c SAN	D, w/ f-c ang. grave	I (Saturated)					2.9	<u>Ā</u> -		
5								11	_		
-								9.4	_		
_								8.2	_		
_								2.768.5	_		
								1121	_		
	s per million ow ground surface	bpf = blov $ce N/W = No$	ws per foot Well Installe	d .				-	sample	collected pletion	
_	Driller:	Eichelbergers Geoprobe 6620D JTB / MC	Γ	Date	_	1ea	sur	Water: ement: ct No.:		4.00 ft bgs 2/23/2009 569313.00002	

I Project:		Boring No.: SB-330 Monitoring Well No.:								
Philadelphia, PA	Date Started: 2/23/09 Date Finished: 2/23/09									
	ner Casing evation: ft.		Outer Casing Elevation: ft.							
DEPTH, ft. ELEVATION (FT. ABOVE MSL.) STRATIGRAPHIC DESCRIPTION	LITHOLOGY SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL WELL WATERIALS							
	0 ° %	206								
		63.9								
Dk. Gray to Black m-c SAND, f-c ang. gravel (Saturat	ed)	12.4								
		11.9								
15		6.2								
Dk. Gray med. stiff, low - med. plas. micaceous silty (Saturated)	CLAY	2.2								
End of Boring 16' bgs										
			-							
Notes: ppm = parts per million bpf = blows per foot bgs = below ground surface N/W = No Well Installed			sample collected at completion							
Driller: Eichelbergers Drilling Method: Geoprobe 6620DT Field Inspector: JTB / MC	Depth to Date of Measure		4.00 ft bgs 2/23/2009 41569313.00002							

Drilling Method: Geoprobe 6620DT
Field Inspector: JTB / MC

Depth to Water: 4.00 ft bgs

Date of Measurement: 2/23/2009

Project No.: 41569313.00002

So	oil Bo	oring Log			Boring No.: SB-334 Monitoring Well No.:							
Proje	ינזי.	The Dow Chem Philadelphia, P			Date Started: 2/18/09 Date Finished: 2/18/09							
Surv	-			ft.	Inner Casi Elevation:	_		ft.		Outer Eleva	Casing tion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_			D, w/ med. ang. gr D, w/ f-m ang. grav						0.0	-		
_		Brown f-c SAN	D, w/ wood frags &	& brick frags, i	ntermittent				0.0			
_		rounded gravel	(Dry)						4.8	_		
_		Grayish Brown	clayey med. SANI	O (Moist)					4.3 3.7	_		
5—		Grayish Brown Wet)	clayey m-c SAND	, w/ m-c ang. g	ravel (Moist -				3.9	_		
_		Dk. Brown f-m	SAND (Moist - W						4.6	_		
_		Black f-m SAN	D, w/ decayed fibe	rous material (Moist - Wet)				61.5	_		
			D, w/ decayed fibe			0,0,0			4.3	<u> </u>		
	= parts	per million w ground surfac	_	ws per foot Well Installe	ed				-	sample	collected pletion	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date	_	leas	sur	Water: ement: ct No.:		9.00 ft bgs 2/18/2009 669313.00002	

Soil Boring Log Boring No.: SB-334 Monitoring Well No.:											
Proje	ct:	The Dow Chem Philadelphia, P	• •		Date Started: 2/18/09 Date Finished: 2/18/09						
Surve	-	N E	Ground Elevation:	ft.	Inner Cas Elevation:	_	ı	ft.		Outer Elevat	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Black m-c SAN	D (Saturated)						3.6	_	
			stiff to med. to low c SAND (Saturated		Saturated)		1		5.2	_	
15—		Dk. Gray soft, lo (Saturated)	ow to med. plas. mi	•	CLAY				2.1	_	
_			End of Boring	; 15' bgs						-	
_										_	
_										_	
	= part	s per million ow ground surface	bpf = blov e N/W = No	ws per foot Well Installe	d					sample of	collected
		Driller: Method: Inspector:	Eichelbergers Geoprobe 6620DT JTB / MC	Γ	Date		1ea	sur	Water: ement: ct No.:		9.00 ft bgs 2/18/2009 69313.00002

Soil Boring Log Boring No.: SB-335 Monitoring Well No.:												
Proje	2CI.	The Dow Chem Philadelphia, P	nical Company	mpany Date Started: 2/20/09 Date Finished: 2/20/09								
Surv Loca	ey ition:	N E	ft.	Inner Casi Elevation:	_		ft.		Outer Eleva	Casing tion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_		Asphalt Brown to Dk. B intermittent fibe	frown SILT & f-c Serous material (Dry	AND w/ f-c ar	ng. gravel &				0.0	-		
_								0.0	_			
_		Black SILT. w/	m-c ang. gravel (M	 loist)		T+1			0.0			
_			Brown SILT & f-c S		 ng_gravel	‡ ‡ ‡			0.0	_		
5		(Moist)	layey f-c SAND, w			# # #			0.0			
_		Black slightly c	iayey i-c SAND, w	7 1-C diig. grave	er (wet)	######################################			0.0	_		
_									0.0	_		
_									0.0	_		
_		Brown clayey f- brick frags (We	-c SAND, w/ f-c an	g. gravel, w/ ir	termittent				0.0	-		
									0.0	_		
	= parts	per million w ground surfac	_	ws per foot Well Installe	d				-	sample at com	collected pletion	
	_	Driller: Method: aspector:	Eichelbergers Geoprobe 6620D' JTB / MC	Γ	Date		1ea	sur	Water: ement: ct No.:		0.00 ft bgs 2/20/2009 569313.00002	

SB-335	
No.	
JRS	

Soil B	oring Log		Boring No.: SB-335 Monitoring Well No.:									
Project:	Date Sta Date Fin				2/20/09 2/20/09							
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	f	t.	Outer (Elevation	_			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMIPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS			
_	Black f-c SANI	D, w/ f-c ang. grave	el (Saturated)				0.0					
_							0.0	-				
_							0.0					
_							0.0	-				
15		End of Boring	g 15' bgs				0.0					
_								-				
	s per million ow ground surfac		ws per foot Well Installe	_				sample collat comple				
	Driller:	Eichelbergers			Dej	pth t	o Water		.00 ft bgs			

Drilling Method: Geoprobe 6620DT
Field Inspector: JTB / MC

Depth to Water: 10.00 ft bgs

Date of Measurement: 2/20/2009

Project No.: 41569313.00002

S	bil Boring Log Boring No.: SB-336 Monitoring Well No.:										
Proje	יז אב	The Dow Chen Philadelphia, F	nical Company	y Date Started: 2/20/09 Date Finished: 2/20/09							
	urvey N Ground Elevation: ft.			ft.	Inner Casi Elevation:	ng		ft.		Outer Elevat	Casing tion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Gray to Dk. Gra	ay f-c SAND & SII	T, w/ f-c ang.	gravel (Dry)	+			0.0	_	
_						+ + + + + +			0.0	_	
_		Gray to Dk Gr	ay f-c SAND & SII	T w/f-c ang	gravel (Moiet)	+ + + + + + + + + + + + + + + + + + + +			0.0	-	
_		Glay to Bk. Gla	y Te ozilve e oli	zr, w/r c ang.	graver (Miorst)	+ + + + + +			0.0	_	
5—		Black clayey f-	c SAND, w/ f-c gra	vel (Saturated)					0.0	▼ –	
_		Lt. Gray soft, lo	ow plas. f-c sandy C	CLAY (Saturate	ed)				0.0	_	
_		Dk. Gray med.	den. low plas. f-c s	andy CLAY (S	aturated)				0.0	-	
_									0.0	_	
	= parts	per million w ground surfac	_	ws per foot Well Installe	d				-	sample l at comp	collected pletion
		Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	<u>Т</u>	Date		1eas	sur	Water: ement: ct No.:	,	5.00 ft bgs 2/20/2009 69313.00002

SB-336	
No.	
JRS	

So	il Bo	oring Log		Boring No.: SB-336 Monitoring Well No.:							
Project: The Dow Chemical Company Philadelphia, PA					Date Started: 2/20/09 Date Finished: 2/20/09						
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Casin	ng		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
									2.3	_	
									3.2	_	
_									3.3	_	
_									0.0	_	
15			End of Boring	g 15' bgs					0.0	_	
_										_	
_										_	
										_	
										_	
Notes:		nor million	hnf _ 1.1-	we per feet		(a)	_ ^	no	lutical	comple	a collected
		s per million w ground sur		ws per foot Well Installe	ed :						e collected npletion
	Driller: Eichelbergers Depth to Water: 5.00 ft bgs Drilling Method: Geoprobe 6620DT Date of Measurement: 2/20/2009 Field Inspector: JTB / MC Project No.: 41569313.00002										

S	oil B	Boring No.: SB-337 Monitoring Well No.:										
Project: The Dow Chemical C Philadelphia, PA					Date Sta Date Fir					2/18/09 2/18/09		
Survey Location:		N Ground E Elevation: ft.			Inner Casi Elevation:	_		ft.	Outer Elevat	Casing tion: ft.		
DEPTH , ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
			ND, w/ med. ang. g D, w/ f-m ang. grav			\$ \$ \$ \$ \$ \$			0.0	_		
		Gray to Tannis subang. gravel	h Gray clayey med. (Moist)	SAND, w/ me	d. rounded &				0.0	_		
_						0 (0.0	_		
_						0 0 0			0.0	_		
5		(Moist)	m-c SAND, w/ ang.	-					41	<u>*</u>		
_		"unknown mate	D, w/ wood frags & erial" (Saturated)	gray med. der	i. frags of				19			
									24.9			
_		Tan soft fibero	us material (Saturate	ed)					437	_		
			End of Borin	g 9' bgs						_		
	= parts	s per million ow ground surface Driller:	bpf = blo	g 9' bgs ws per foot Well Installe	ed	Ţ	= v	vate	-	at comp	collected pletion 5.00 ft bgs	
	_		Geoprobe 6620D JTB / MC	Γ	Date		1ea	sur	ement: ct No.:	2	2/18/2009 69313.00002	

Soil B	Boring No.: SB-338 Monitoring Well No.:									
Project:		Date Sta Date Fir				2/20/09 2/20/09				
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	nner Casing levation: ft.			Outer Casing Elevation:		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Asphalt Dk. Brown f-c	SAND, w/ f-c ang.	gravel (Dry)				6.5			
							4.2	_		
							1.2			
	Lt. Tan silty CI						0.6			
		AY (slightly sticky n SAND, w/ f-c ang.					0.0	_		
	Dk. Brown f-c intermittent wh	SAND & f-c ang. C ite specks (Saturate	GRAVEL, w/ so ed)	ome			0.0	<u>* -</u>		
							0.0	_		
_							0.0	_		
					= = = = = = =		0.0	-		
					= = = = = = =		0.0			
-	s per million ow ground surfac	_	ows per foot Well Installe	d			-	l sample el at com	e collected	
_	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date	of M	Ieas	o Wate uremen ject No	t:	5.00 ft bgs 2/20/2009 569313.00002	

Soil I	Boring Log	Boring No.: SB-338 Monitoring Well No.:							
Project:	The Dow Cher Philadelphia,	Date Sta				2/20/09 2/20/09			
Survey Location	N : E	Ground Elevation:	ft.	Inner Casi Elevation:	_	1	t.	Oute Eleva	r Casing ation: ft.
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS
_	Dk. Brown f-c	SAND & f-c ang. C	GRAVEL (Satu	rated)			0.0	_	
_							0.0	-	
	Dk. Brown cla	yey f-c SAND (Satu	arted)		=======================================		0.0	-	
	Grayish Brown Wet)	n med. stiff, med. pl	as. silty CLAY	Moist -			0.0	-	
5		End of Boring	g 15' bgs					-	
								_	
								_	
Notes:									
	rts per million low ground surfa	-	ws per foot Well Installe	ed				l sample el at com	collected apletion
	Driller: ng Method: I Inspector:	Eichelbergers Geoprobe 6620D JTB / MC	<u>T</u>	Date	of M	leas	o Wate uremen ject No	t:	5.00 ft bgs 2/20/2009 569313.00002

SB-339	
No.	
JRS	

Soil	Boring Log	Boring No.: SB-339 Monitoring Well No.:								
Project: The Dow Chemical Company Philadelphia, PA				Date Sta Date Fin		:		2/20/09 2/20/09		
Survey Location	N 1: E	Ground Elevation: ft.		Inner Casir Elevation:	ng	ft.		Outer (•	
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY SPT (bof)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
	Asphalt Dk. Brown f-o	c SAND, w/ f-c ang. §	gravel (Dry)				0.0	-		
_							0.0	_		
_							0.0	_		
5———	Black SAND recovery, very	& GRAVEL (Saturat v loose)	ed) Note: Very	y poor				_		
_								-		
_								_		
	arts per million elow ground surfa	$\begin{array}{cc} bpf &= blow\\ ace & N/W = No \end{array}$	ws per foot Well Installe					sample c		
	Driller: ng Method: d Inspector:	Eichelbergers Geoprobe 6620D7 JTB / MC	Γ	Date o	of Me	asur	Water: ement: ct No.:	2	.00 ft bgs ./20/2009 59313.00002	

Soil			_			SB-33 /ell N					
Project		Date Started: 2/20/09 Date Finished: 2/20/09									
Survey Locatio		N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
15			gravel (Saturated) med. stiff, low plass End of Boring	s. silty CLAY	(Moist)				0.0	-	
_										_	
		per million ground surface		ws per foot Well Installe	ed .				-	_	e collected appletion
	ling N	Driller: Method: Driller: Opector:	Eichelbergers Geoprobe 6620D JTB / MC	Τ	Date	of M	Ieas	sure	Water: ement: ct No.:		5.00 ft bgs 2/20/2009 569313.00002

SB-340	
No.	
URS	

Soil B	Boring No.: SB-340 Monitoring Well No.:								
Project:	The Dow Cher Philadelphia, F		Date Sta Date Fin				2/20/ 2/20/		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casin	ng	1	it.		er Casing vation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil	Screen (ppm) WELL SCHEMATIC	WELL MATERIALS
	Asphalt Dk. Brown f-c	SAND, w/ f-c grave	el (Dry)				20.	5	
							6	3	_
							2.5	3	
		y CLAY ("sticky m	•				0.0)	
		SAND, w/ f-c grave	. •				0.0)	
	Dk. Brown f-c	SAND & f-c ang. C	GRAVEL (Satu	rated)	를 등 등 등 등 등 등		0.0)	
							0.0)	-
_							0.0)	-
					는 등 등 등 등 등 등 등 등 등 등 등 등 등		0.0)	-
					: (등		0.0)	
	s per million ow ground surfac	_	ws per foot Well Installe	d :			-	_	le collected mpletion
_	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620D' JTB / MC	T	Date	of M	leas	o Wat ureme	nt:	5.00 ft bgs 2/20/2009 1569313.00002

Soil B	Boring No.: SB-340 Monitoring Well No.:									
Project:	Date Sta Date Fir					2/20/09 2/20/09				
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.		Outer Elevat	Casing tion: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DESCRIPTION								WELL MATERIALS
	Dk. Brown to	Black f-c SAND, w/	f-c ang. grave	l (Saturated)				0.0		
								0.0	_	
_								0.0	_	
								0.0	_	
5—		End of Boring	g 15' bgs		 			0.0	_	
_									_	
									_	
									_	
									_	
	s per million ow ground surfa		ws per foot Well Installe	ed				-	sample of	collected
_	Driller: Eichelbergers Depth to Water: 5.00 ft bgs g Method: Geoprobe 6620DT Date of Measurement: 2/20/2009 Inspector: JTB / MC Project No.: 41569313.00002					2/20/2009				

Soil B	Boring No.: SB-341 Monitoring Well No.:												
Project:	Project: The Dow Chemical Company Philadelphia, PA						Date Started: 2/20/09 Date Finished: 2/20/09						
Survey Location:	N E	Ground Elevation:	ft.	Inner Casin	ng		ft.		Oute Eleva	r Casing ition: ft.			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
	Asphalt Brown - Dk. Bro (Dry)	own slightly f-c SA	ND & f-c ang.	GRAVEL				0.0					
								0.0					
								0.0					
					는 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등			0.0	_				
5	DI 1 C GANG							0.0	_				
	Black 1-c SANL	0 & f-c ang. GRAV	EL (Saturated)		=			0.0	_				
								0.0	_				
===:		Y (sticky material) & f-c ang. GRAV		 	= = ///= = =			0.0	_				
_		Ç						0.0	_				
					는 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등			0.0					
	s per million ow ground surface	bpf = blov e N/W = No	ws per foot Well Installe	d :				-	sample l at com	collected pletion			
_	Driller: Method: Onspector:	Eichelbergers Geoprobe 6620D JTB / MC	Γ	Date	_	leas	sur	Water: ement: ct No.:		5.00 ft bgs 2/20/2009 569313.00002			

Soi	Boring No.: SB-341 Monitoring Well No.:											
Projec	Project: The Dow Chemical Company Philadelphia, PA					Date Started: 2/20/09 Date Finished: 2/20/09						
Survey Locati	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.			r Casing ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	(pdq) LAS	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
									0.0	_		
									0.0	_		
_									0.0	_		
		Gray soft to med	d. stiff, low plas. slerial throughout (W	ightly sandy, s	ilty CLAY,	=======================================			20.2	_		
15		W Hoerous Had							1054			
			End of Boring	g 15' bgs								
										_		
										-		
	parts	s per million w ground surface	bpf = blo e N/W = No	ws per foot Well Installe	ed .				-	_	collected	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	Γ	Date		leas	sur	Water: ement: ct No.:		5.00 ft bgs 2/20/2009 569313.00002	
					DC						Sheet 2 of 2	

S	oil Bo			_			SB-342 /ell No				
Proje	ect:		Date St								
Surv	-	N E	Ground Elevation:	ft.	Inner Cas	_		ft.		Outer Elevat	Casing ion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
		Asphalt Brown to Dk. E	Brown f-c SAND, w	 // f-m ang. grav	el (Moist)	0000			0.0	_	
_		Whitish Tan loo	Whitish Tan loose clayey SILT (Moist) 0.0								
_		Brown to Dk. Brown f-c SAND, w/ f-m ang. gravel (Moist)									
_		Dk. Brown to E	f-c ang. grave	(Saturated)				0.0	<u> </u>		
5—									0.0	_	
_		Dk. Brown to E	Black w/ slight redd	ish color, f-c S.	 AND, w/ f-c				0.0	_	
_		ang. gravel (Sat	D, w/ f-c ang. grave	el (Saturated)					0.0	_	
_											
Note:		per million	bpf = blo	ws per foot		(a)	= <i>A</i>	\ \na	lytical	sample o	collected
		w ground surfac	-	Well Installe	d				-	at comp	
		Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	<u>T</u>	Date		1ea	sur	Water: ement: ct No.:		4.00 ft bgs 2/24/2009 69313.00002

Soi	Boring No.: SB-342 Monitoring Well No.:										
Project	т.	Γhe Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin						
Survey		N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Black f-c SANI (Saturated)	O, w/ f-c ang. grave	el, decayed woo	od frags.				5.5	_	
_									20.4	_	
									6.2	-	
									90.9	-	
15		Gray soft, low I	plas. gravelly silty (CLAY (Saturat	ed)				59.9	_	
						#			8.2	_	
_						# #			10.6	_	
				· -,- - ,, - ·					4.6 2.2	-	
		CLAY (Saturate	ay med. stiff, low-ned) End of Boring	g 20' bgs	eous siity						
		per million v ground surfac	-	ws per foot Well Installe	d .				-	sample I at com	collected pletion
		Driller: Method: spector:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date		leas	sur	Water: ement: ct No.:		4.00 ft bgs 2/24/2009 69313.00002

S	oil Bo	oring Log			_			SB-34 Vell No			
Proje	ect:		Date Sta Date Fin				2/23/09 2/23/09				
Surv Loca	ey ation:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Brown to Dk. B	Brown f-c SAND, w		el (Dry)				0.0	_	
			1.5								
		Whitish Tan med. den clayey SILT (Dry) 2.4									
_		Brown to Dk. B	Brown f-c SAND, w	/ f-c ang. grave	el (Dry)				2.5		
5									0.0	T	
3		Brown to Dk. B	Brown f-c SAND, w	/ f-c ang. grave	el (Saturated)				0.0	_	
		Whitish Tan me	ed. den clayey SILT	(Saturated)					0.0	-	
_		POOR RECOVERY									
										-	
_										-	
	= parts	s per million w ground surfac	_	ws per foot Well Installe	d .				-	sample	collected pletion
	_	Driller: Method: onspector:	Eichelbergers Geoprobe 6620D JTB / MC	Τ	Date		/lea	sur	Water: ement: ct No.:		5.00 ft bgs 2/23/2009 569313.00002

SB-343	
No.	
JRS	

Soil Boring Log	Boring No.: SB-343
	Monitoring Well No.:

Date Started: The Dow Chemical Company 2/23/09 **Project:** Philadelphia, PA **Date Finished:** 2/23/09 Ground Survey N **Inner Casing Outer Casing** Location: E Elevation: ft. Elevation: ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) SAMPLES DEPTH, ft. WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Dk. Gray soft to med. stiff, low-med plas. micaceous silty CLAY (Saturated) 0.0 End of Boring 12' bgs 15-Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface N/W = No Well Installed **▼** = water level at completion Driller: Eichelbergers Depth to Water: 5.00 ft bgs Drilling Method: Geoprobe 6620DT Date of Measurement: 2/23/2009 Field Inspector: JTB / MC Project No.: 41569313.00002

So	oil Bo	oring Log		Boring No.: SB-344 Monitoring Well No.:							
Proje	2 01 1	The Dow Chem Philadelphia, P			Date Standard					2/19/09 2/19/09	
Surv	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_	I	ft.		Oute Eleva	r Casing ition: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Grayish Brown (Moist)	to Brownish Gray	f-c SAND, w/	f-c ang. grave				0.0	_	
_									0.0	_	
_		Grayish purple s "sticky"/"gumm	oft, low plas. silty y" substance (Wet	CLAY w/ inte	rmittent white				0.0	_	
5—		(Moist)	D, w/ f-c gravel, in						0.0	<u>*</u> _	
_		(Saturated)	s, wrie graves, m		K Tugo				0.0	_	
_		Brownish Gray	clayey f-c SAND (Saturated)					0.0	_	
_		Black f-c SAND yellow specks (S	o, w/ f-c ang. grave Saturated)	el, intermittent	whitish				0.0	_	
									0.0		
	= parts	per million w ground surface	_	ws per foot Well Installe	ed				-	sample l at com	collected pletion
	_	Driller: Method: Caspector:	Eichelbergers Geoprobe 6620D JTB / MC	<u>T</u>	Date		1ea	sur	Water: ement: ct No.:		5.00 ft bgs 2/19/2009 569313.00002

So	oil Bo	oring Log			Boring No.: SB-344 Monitoring Well No.:							
Proje	ידייני.	The Dow Chem Philadelphia, P			Date Sta Date Fin					2/19/09 2/19/09		
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_									43.7	_		
_					- -				7.6	_		
		Black sitly 1-c S	AND, w/ f-m ang.	gravel (Satura	ted)	# # # #			443			
_						+ + + +			601	_		
15—		(Dry)	SAND & ang. gra		t like material	# # # # # # # # # # # # # # # # # # # #			70.1	_		
_		Gray coarse gra	vel (Very Little Re	covery)					0.0			
_									0.0			
									0.0			
_									0.0	_		
									0.0			
	= parts	per million w ground surfac	_	ws per foot Well Installe					-	sample l at com	collected pletion	
		Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	T_		_	leas	sur	Water: ement: ct No.:		5.00 ft bgs 2/19/2009 69313.00002	

Soil B	oring Log		Boring No.: SB-344 Monitoring Well No.:							
Project:	The Dow Chem Philadelphia, P	• •		Date Sta Date Fir					2/19/09 2/19/09	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:		ft.		Outer Elevat	Casing tion: ft.	
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Black f-c SAND) & f-c GRAVEL (S	Saturated)					34.9	_	
_								69.8	-	
_								45.1	-	
_	Brown fiberous Brownish Gray CLAY (Moist)	material med. stiff, low to m	ed. plas. mica	ceous silty	/			0.0	-	
25		End of Boring	25' bgs					0.0	_	
_									_	
_									_	
N										
	s per million ow ground surface	bpf = blow $e N/W = No$	vs per foot Well Installe	d					sample at comp	collected pletion
	Driller: Method: nspector:	Eichelbergers Geoprobe 6620DT JTB / MC		Date		1ea	sur	Water: ement: ct No.:		5.00 ft bgs 2/19/2009 669313.00002

Sc	oil Bo	oring Log		Boring No.: SB-345 Monitoring Well No.:								
Proje	v∩t.	The Dow Chen Philadelphia, F	nical Company PA		Date Si Date Fi					2/23/09 2/23/09		
Surve	-	N E	Ground Elevation:	ft.	Inner Cas	_		ft.		Outer Elevat	Casing ion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
_		Asphalt Brown to Dk. E Moist)	Brown f-c SAND, w		el (Dry -	0000			0.0	_		
_									0.0	_		
									0.0			
		Brown to Dk. E	Brown f-c SAND, w	// f-c ang. grave	el (Saturated)				0.0	Ā -		
5—									0.0			
-		Lt. Gray to Gra	y clayey SILT (Sat	urated)					0.0	_		
_		Black f-c SANI	D, w/ f-c ang. grave	el (Saturated)		000			0.0			
									37.5	_		
	= parts	per million w ground surfac	-	ws per foot Well Installe	— — -				-	sample of		
		Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date		1eas	sur	Water: ement: ct No.:	2	.00 ft bgs 2/23/2009 59313.00002	

So	oil Bo	oring Log			Boring No.: SB-345 Monitoring Well No.:							
Proje	⊃Ct.	The Dow Cher Philadelphia, I	mical Company PA		Date Sta	2/23/09 2/23/09						
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_	fi	t.	Outer Elevat	Casing tion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_		Whitish Tan m	ed. stiff clayey SILT	Γ(Saturated)		0000		40.1	_			
		Black f-c SAN	D, w/ f-c ang. grave	l (Saturated)) 		4.6				
_		Black m-c SAI (Saturated)	ND, w/ f-m ang. grav	vel, brick & gla	ass frags	0 0 0		12.7	-			
-	====	Black m-c SAl intermittent "sl Black m-c SAl (Saturated)	ND, w/ f-m ang. grav niny plastic like" frag ND, w/ f-m ang. grav	vel, brick & glags (Saturated) vel, brick & gla	ass frags,	<i>f</i>		31.4	-			
15—								139	_			
_								0.0	_			
_		Black m-c SAI some strings of	ND, w/ f-m ang. grav f fiberous material (S	vel, brick & gla Saturated)	ass frags,			0.0	_			
_			Refusal 18.	5' bgs				0.0				
	= parts	per million w ground surfa	-	ws per foot Well Installe	d			-	l sample el at comp	collected oletion		
	-	Driller: Method: aspector:	Eichelbergers Geoprobe 6620D7 JTB / MC	Γ	Date	of M	leası	o Water irement	:	4.00 ft bgs 2/23/2009 69313.00002		
							-					

SB-346	
No.	
JRS	

Soil E	Boring Log				Boring No.: SB-346 Monitoring Well No.:								
Project:	The Dow Chen Philadelphia, P			Date Sta Date Fin				2/19/09 2/19/09					
Survey Location:	N : E			Inner Casin	ng	ft.		Outer Casing Elevation: ft.					
DEPTH, ft.	(F1. ABOVE MSL)	STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS				
	Asphalt Grayish Black f	F-c SAND, w/ f-c an	g. gravel (Dry)				0.0	_					
_							0.0	_					
							0.0						
	Grayish Black f	S-c SAND, w/ f-c an	ig. gravel (Moi	st)			0.0						
	Grayish Black f	-c SAND, w/ f-c an	ng. gravel (Wet)			1.5						
5	Dk. Brown to B wire frags (Wet	llack f-c SAND, was	f-c ang. grave	l, intermittent			0.0	¥]					
							0.0						
							0.0						
	Brown WOOD	frags			2000 A		5.1						
							29.1						
	rts per million low ground surfac	bpf = blov $e N/W = No$	ws per foot Well Installe	d				sample coll at compl					
Drillin	Driller:	Eichelbergers Geoprobe 6620D	Γ	Date	of M	easur	Water:	2/	80 ft bgs /19/2009				

Field Inspector: JTB / MC Project No.: 41569313.00002

SB-346	
No.	
RS	

Sc	oil B	oring Log			Boring No.: SB-346 Monitoring Well No.:							
Proje	ect:	The Dow Chem Philadelphia, P									9 9	
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_			Refusal 10.4	4' bgs						_		
_										_		
15										_		
_										_		
										_		
	= parts	s per million w ground surfac	bpf = blow e N/W = No	vs per foot Well Installe							collected	
		Driller: Method:	Eichelbergers Geoprobe 6620DT JTB / MC		Date o		/lea	sur	Water: ement: ct No.:		5.80 ft bgs 2/19/2009 569313.00002	

S	oil Bo	oring Log			Boring No.: SB-347 Monitoring Well No.:								
Proje	יזאב.	The Dow Chen Philadelphia, F		y Date Started: Date Finished:						2/19/09 2/19/09			
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casin Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
		Asphalt Grayish Black f	F-c SAND, w/ f-c a	ng. gravel (Dry)				3.9	-			
_									2.6	_			
_		Grayish Black f	F-c SAND, w/ f-c a	ng. gravel (Mo	ist)				4.7	_			
_									6.0	_			
5—		Grayish Black f	F-c SAND, w/ f-c a	ng. gravel (Sati	irated)				5.2				
_		Black decayed	WOOD debris (Sat	urated)					7.0	_			
_		Red f-c BRICK	frags (Saturated)						6.3	_			
_									4.9	_			
	= parts	s per million w ground surfac	_	ows per foot Well Installe	d :				-	sample	collected pletion		
		Driller: Method:	Eichelbergers Geoprobe 6620D JTB / MC	<u>T</u>	Date	of M	[eas	sur	Water: ement: ct No.:		5.00 ft bgs 2/19/2009 569313.00002		

So	oil B	oring Log		Boring No.: SB-347 Monitoring Well No.:								
Proje	ect:	The Dow Chem Philadelphia, P			Date Sta Date Fin					2/19/09 2/19/09		
Surv	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Elevat	Casing tion: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
			O & f-c ang. GRAV						14.6	-		
_		Dir Dayum alayı	ov f a CAND vy f		.				9.4	_		
_			ey f-c SAND, w/ f e" material (Satura low to med. plas.						6.5	_		
_									8.2	_		
15		Gray med. stiff,	low to med. plas. End of Borin		/et)				12.3	_		
_										_		
_										_		
	= parts	s per million w ground surfac	-	ws per foot Well Installe					-	sample of	collected pletion	
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	T		_	1ea	sur	Water: ement: ct No.:		5.00 ft bgs 2/19/2009 69313.00002	

Sc	oil B	oring Log			Boring No.: SB-348 Monitoring Well No.:							
Proje	ct:	The Dow Chem Philadelphia, P			Date St Date Fi					2/24/09 2/24/09		
Surve	-	N E	Ground Elevation:	ft.	Inner Cas Elevation:	_		ft.		Outer (_	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_		Asphalt Lt. Brown and A (Poor Recovery, Jackson of Rohr	Amber cation excha Identification of n m & Haas)	inge beads (Dr naterial accord	y - Moist) ing to F.				4.2	_		
									6.8	_		
_									8.2	-		
5—		Dk. Brown silty	f-c SAND w/ f-m	ang. gravel (M	oist)				6.9	-		
_									7.2	-		
_		(Saturated)	eddish Black f-c S		 ng. gravel					<u> </u>		
_		Black I-c SAINL	D, w/ f-c ang. grave	i (Saturated)						_		
	= parts	s per million w ground surface	-	ws per foot Well Installe	d				-	sample c		
		Driller: One in the control of	Eichelbergers Geoprobe 6620D JTB / MC	Γ	Date		1eas	sur	Water: ement: ct No.:	2	.00 ft bgs /24/2009 59313.00002	

SB-348	
No.	
JRS	

Soil Boring Log	Boring No.: SB-348
	Monitoring Well No.:

Project:	Date Sta Date Fin				2/24/09 2/24/09						
Survey _ocation:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	_				Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION	(T. ABOVE MOL)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
									_		
		End of Boring	g 12' bgs						_		
-									_		
5—											
-									_		
									_		
									-		
	ts per million		ws per foot Well Installed						sample of	collected oletion	
	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620D JTB / MC	T			l eas	sur	Water: ement: ct No.:		7.00 ft bgs 2/24/2009 69313.00002	

So	oil Bo	oring Log	Boring No.: SB-349 Monitoring Well No.:								
Proje	ידאי.	The Dow Chen Philadelphia, F			Date Sta Date Fir					2/24/09 2/24/09	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_				Outer Elevat	Casing ion: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt Brown silty f-c	SAND, w/ f-m gra	vel (Dry to Mo	ist)	= = = =			64.2	_	
_						= = = =			287	_	
_		Dk. Brown to E (Dry to Moist)	Black f-m SAND, ir	ntermittent med	ang. gravel	0 (308		
_		Brown to Black	s f-m SAND, intern	nittent med. ang	g. gravel (Dry	0 (87.9	_	
5		to Moist)				0 (1374	_	
_		Brown to Black	c f-m SAND, w/ so d. ang. gravel (Dry	me whitish tan	lenses &				774 184	_	
_		Brown to Black intermittent me Brown to Black	d. ang. gravel (Dry k f-m SAND, w/ sor d. ang. gravel (Dry k f-m SAND, w/ sor d. ang. gravel (Satu	me whitish tan to Moist) me whitish tan		1000			69.3	<u> </u>	
_						0 0 (6.9	_	
		VOID				0 0 0					
_	= parts	s per million w ground surfac	_	ows per foot Well Installe	d				-	sample of	collected oletion
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date	_	leas	sure	Water: ement: ct No.:	2	7.00 ft bgs 2/24/2009 69313.00002

So	oil Bo	oring Log		Boring No.: SB-349 Monitoring Well No.:								
Proje	CI.	The Dow Chem Philadelphia, P			Date Sta Date Fin					2/24/09 2/24/09		
Surve Locat	-	N E	Ground Elevation:	Inner Casin	ng		ft.		Outer Eleva	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
15—			0 & f-c ang. gravel		OOR				6.9 2.7 6.4 3.9			
	= parts	per million w ground surface	-	ws per foot Well Installe	d :					sample at com	collected pletion	
	_	Driller:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date	of M	Ieas	sur	Water: ement: ct No.:		7.00 ft bgs 2/24/2009 569313.00002	

S	oil Bo	oring Log			Boring No.: SB-349 Monitoring Well No.:									
Proje	2Ct.	The Dow Chem Philadelphia, P	nical Company		Date Sta Date Fin					2/24/09 2/24/09				
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft.					Outer Eleva	Casing tion: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
_		Black f-c SANI	O & f-c ang. gravel	(Saturated)		0 () 0 (1.5	_				
_) o (1.2	_				
_									0.9	_				
_									3.9	_				
25—		Black coarse SA	AND & f-m gravely	v, soft, low plas	s. <u>C</u> LAY	0 ()			5.2					
_		(Saturated) Black coarse SA	AND & f-m gravely rags (Saturated)	v, soft, low plas	s. CLAY, w/	0 0 0			8.8	_				
_		Dk. Gray, med.	rags (Saturated) stiff, med. plas. mi End of Boring	cacous silty Cl	LAY (Wet)				5.9	_				
_										_				
	= parts	per million w ground surfac	-	ws per foot Well Installe					-	sample at com	collected pletion			
	_	Driller:	Eichelbergers Geoprobe 6620D' JTB / MC	Γ		_	leas	sur	Water: ement: ct No.:		7.00 ft bgs 2/24/2009 569313.00002			

SB-350	
No.	
URS	

Soil B	oring Log			Boring No.: SB-350 Monitoring Well No.:							
Project:	The Dow Chem Philadelphia, P		Date Sta Date Fin	9							
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.			r Casing ation: ft.	
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Asphalt Brown to Lt. Br	rown, silty f-c SAN	ND, w/ f-m ang	gravel (Dry)	# # #			0.0	_		
	Brown to Dk. B Moist)	rown f-c SAND, w	v/ f-m ang. grav	vel (Dry to	# # # # #			12.3	_		
					+ + + +			225	_		
					+ + + + + +			27.9	_		
5—					+ + + + +			253	_		
					+ + + +			3278	_		
							Į(9999 OVER) <u>¥</u> _		
					+ + +			4626			
		End of Borir	ng 8' bgs						_		
	ts per million ow ground surfac		ows per foot Well Installe	ed :				-	_	collected	
-	Driller: g Method:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date	_	leas	sure	Water: ment: t No.:		7.00 ft bgs 2/24/2009 569313.00002	

SB-351	
No.	
JRS	

Soil Boring Log	Boring No.: SB-351
	Monitoring Woll No.

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		lon	Monitoring Well No.:								
Project: The Dow Chemical Company Philadelphia, PA					Date Sta Date Fini					2/25/09 2/25/09			
Survey Location		N E	Ground Elevation:	ft.	Inner Casing Elevation:			ft.		Outer Casing Elevation: ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_									0.0	_			
_		Gray and Lt.	Brown, soft, silty CL	, , , , ,					0.0	-			
_										_			
5—										_			
_										_			
_										_			
_										_			
	parts	per million w ground surf		ws per foot Well Installed						sample l at com	collected pletion		
		Driller: _ Method: _ nspector: _	Eichelbergers Geoprobe 6620D JTB / MC	Γ			leas	sur	Water: ement: ct No.:		4.00 ft bgs 2/25/2009 669313.00002		

So	oil B	oring Log		Boring No.: SB-353 Monitoring Well No.:								
Proje	ect:	The Dow Chem Philadelphia, P			Date St Date Fi					2/25/09 2/25/09		
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Cas Elevation:	_		ft.		Outer Elevat	Casing tion: ft.	
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)			LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
_			ND, some f-m roun D, w/ f-c ang grave		clay (Dry)				0.0	_		
_		Brown, f-m SA	ND, some f-m roui	nded gravel (Dr	ry)				0.0	-		
_		Concrete (Dry) Brown f-m SAN	ND, some f-m roun	ded gravel (Mo					0.0	-		
5—									0.0	_		
_			y silty, stiff, CLAY y silty, stiff, CLAY			0.00			0.0	▼ -		
_			End of Borin	g 10' bgs						-		
	= parts	s per million ow ground surfac	-	ows per foot Well Installe	ed				-	sample of	collected pletion	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	T	Date		1ea	sur	Water: ement: ct No.:		7.00 ft bgs 2/25/2009 69313.00002	

So	oil B	oring Log		Boring No.: SB-354 Monitoring Well No.:									
Proje	ect:	The Dow Chem Philadelphia, P			Date St Date Fi					2/25/09 2/25/09			
Surv	-	N E	Ground Elevation:	ft.	Inner Cas	_		ft.		Outer Elevat	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
		Gray and Red F. Asphalt	ILL, (building rubb	ole, concrete &	brick frags)				0.0	_			
		Lt. Brown f-m S	SAND (Dry)						0.0				
		Dk. Brown f-m (Dry)	micaceous SAND,	some f-m rour	nded gravel				0.0				
_								0.0	-				
		Gray, soft, silty					0.0						
5		Gray, soft, silty	CLAY (Saturated)							<u> </u>			
_		Black f-c SAND	D, w/ f-c ang. grave	ol (Saturated)						_			
_										-			
_			End of Borin	g 8' bgs		• • • •				_			
	= parts	s per million ow ground surface	-	ws per foot Well Installe	ed				-	sample I at comp	collected pletion		
ח	rillina	Driller:	Eichelbergers Geoprobe 6620D'	т	Doto		_		Water: ement:		5.00 ft bgs 2/25/2009		
	_	nspector:	JTB / MC		Date	. 01 IV			et No.:		69313.00002		

S	oil Bo	oring Log			Boring No.: SB-355 Monitoring Well No.:								
Proje	ידיב	The Dow Chem Philadelphia, P	nical Company		Date Started: Date Finished:					2/25/09 2/25/09			
Surv Loca	ey ition:	N E	Ground Elevation: ft.		Inner Casi Elevation:	ng		ft.		Outer Eleva	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DI	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
5————————Note:	S:	Lt. Brown silty	own silty micaceous pist) f-c SAND, w/ f-c and f-c SAND, w/ f-c S	g. gravel (Sat	urated)				0.0 0.0 0.0 0.0 0.0	▼			
ppm	= parts	per million w ground surfac	bpf = blow $e N/W = No V$		d .					sample at com	collected pletion		
		Driller:	Eichelbergers Geoprobe 6620DT JTB / MC		Date		1eas	sure	Water: ement: ct No.:		5.00 ft bgs 2/25/2009 669313.00002		

SB-355	
No.	
URS	

Soil Bor	ing Log			Boring No.: SB-355 Monitoring Well No.:								
Project.	ne Dow Chem niladelphia, P	ical Company A		Date Sta Date Fin				2/25/09 2/25/09				
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng	ft.		Outer Elevat	Casing tion: ft.			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)	E	STRATIGRAPHIC I		Elevation	LITHOLOGY	SPI (bpt)		WELL SCHEMATIC	WELL MATERIALS			
	NO RECOVER	Y						-				
5—								-				
	Dk. Gray, med.	stiff, med. plas. mi	caceous silty (CLAY (Moist)				-				
Notes: ppm = parts po			g 20' bgs ws per foot Well Installe	d				sample of	collected			
E Drilling M Field Insp		Eichelbergers Geoprobe 6620D' JTB / MC	Τ	Date	of Me	easu	Water: rement: ect No.:		5.00 ft bgs 2/25/2009 69313.00002			

So	oil Bo	oring Log			Boring No.: SB-356 Monitoring Well No.:								
Proje	^†•	The Dow Chen Philadelphia, F	nical Company PA	Date Started: Date Finished:						2/25/09 2/25/09			
Surv	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Elevat	Casing tion: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
			y f-c SAND, f-c ang						0.0				
			sh Black silty f-c SAND, f-c ang. gra		gravel (Moist)				0.0				
		Black to Reddi	sh Black silty f-c Sa	AND, f-c ang.	gravel (Moist)				0.0				
	— — — — — — — —		n silty f-c SAND, f- sh Black silty f-c SA						0.0				
5—									0.0				
									0.0				
		Black to Reddi (Saturated)	sh Black silty f-c SA	AND, f-c ang.	gravel					<u>*</u> -			
_													
_													
_													
			End of Boring	g 10' bgs									
	= parts	per million w ground surfac	-	ws per foot Well Installe					-	sample of	collected bletion		
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	Τ			/leas	sur	Water: ement: ct No.:	2	5.00 ft bgs 2/25/2009 69313.00002		

S	oil Bo	oring Log			Boring No.: SB-357 Monitoring Well No.:							
Proje	⊃C1.	The Dow Cher Philadelphia, I	mical Company		Date Sta Date Fin					2/25/09 2/25/09		
Surv Loca	ey ition:	N E	Ground Elevation:	Inner Casing Elevation: ft.					Outer Eleva	Casing tion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		Asphalt							0.0			
_		Dk. Brown silt	y f-c SAND, w/ f-c	ang. rounded	gravel (Dry)	= = = = = = = = = = = = = = = = = = = =			0.0	_		
_									0.0	-		
_			SAND w/ f-m grave SAND w/ f-m grave			# # # # # # # # # # # # # # # # # # #			0.0	_		
5—		Brown f-c sand	ly, soft, low plas. C	LAY (Saturate	d)					<u> </u>		
_			oft, low plas. CLAY							_		
_		Gray, med. stif (Saturated)	f, low - med. plas. r	nicaceous silty	CLAY					-		
			End of Borin	g 10' bgs								
	= parts	per million w ground surfac	-	ws per foot Well Installe	ed				-	sample at com	collected pletion	
		Driller: Method: aspector:	Eichelbergers Geoprobe 6620D JTB / MC	<u>T</u>	Date	of M	leas	sur	Water: ement: ct No.:		5.00 ft bgs 2/25/2009 569313.00002	

So	il Bo	oring Log	Boring No.: SB-358 Monitoring Well No.:										
Projed	ct:	The Dow Chem Philadelphia, P			Date S Date F					2/25/09 2/25/09			
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Ca Elevation	_		ft.		Outer Elevati	Casing ion: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		ПТНОГОВУ	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_		Asphalt/Gravel Brown f-m SAN	ID, some f-m ang.	gravel, trace cl	ay (Dry)				0.0	_			
_									0.0	_			
_									0.0	_			
5—		Black f-c SAND	D, w/ f-m ang. grav	el (Dry to Wet)					0.0				
									0.0	_			
			O, w/ f-m ang. grav						0.0	_			
_			End of Borin	g 8' bgs									
	= parts	s per million w ground surface	_	ws per foot Well Installe	d				-	sample c			
	_	Driller: One provided the control of the cont	Eichelbergers Geoprobe 6620D JTB / MC	Т	Da		leas	sur	Water: ement: ct No.:	2	5.50 ft bgs 2/25/2009 69313.00002		

					IVI	on —	IITC	ori	ng w	eli N	o.: N/W
Proje	Ct.	The Dow Cher Philadelphia, I		Date Sta Date Fin					7/30/12 7/30/12		
	Survey N Ground Location: E Elevation: ft.				Inner Casir Elevation:	ng		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Concrete and b	orick fragments (fill)				(a)		0.2		
		Black and Whi	te SILTY SAND, m	edium to coars	se sand.		(a)		0.3	_	N/W
		GRAVEL with	SAND, coarse (we	t at 3' bgs.).					0.2	_ 	
			End of Boring	3.5' bgs					0.1	<u>-</u>	
5—										_	
_										_	
_										_	
_										_	
										_	
	= parts	per million w ground surfa	_	ws per foot Well Installe						_	e collected apletion
		Driller: Method: spector:	Zebra Geoprobe 6620D' GSC	Γ			Леа	sur	Water: ement: ct No.:		3.00 ft bgs 7/30/2012 569313.00002

					W	lon 	iltc)ri	ng W	ell N	o.: N/W
Proje	Ct.	The Dow Cher Philadelphia, F		Date Sta Date Fin					8/3/12 8/3/12		
Surve	-	N E	Inner Casir Elevation:	ng		ft.	Г		r Casing ation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
-			ushed concrete. RAVELLY SAND, towards base.	medium to co	 arse sand, dry		(a)			-	N/W
5—			towards base. L with SAND, med							- ¥ -	
-										- - -	
10			End of Boring	g 10' bgs						- - -	
15—										_ _ _ _	
Notes										_	
	= parts	per million w ground surface	-	ws per foot Well Installe						_	e collected appletion
		Driller: Method: spector:	Zebra Geoprobe 6620D GSC	T			1ea	sur	Water: rement: ect No.:		6.00 ft bgs 8/3/2012 569313.00002

Boring No.: SB-365

Project:	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin				9/10/12 9/10/12			
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	f	t.		Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
5—		of concrete at base.		ck fragments		(a)	2.9	- - -	N/W		
0	Black and Whit gravel.	te GRAVEL with S		rounded			2.4	-			
5—								-			
- - -								-			
	s per million w ground surfac	_	ows per foot Well Installe					_	e collected		
	Driller: Method:	Zebra Geoprobe 6620D GSC	T		of M	leası	o Water urement ect No	t:	4.50 ft bgs 9/10/2012 1569313.00002		

Proje	JCT'	The Dow Che Philadelphia,		Date Sta Date Fin					7/30/12 7/30/12			
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
			rushed concrete. EL with CLAY, strong	 ng odor.			(a)		26.7 42.7 128.7	-	N/W	
		at 2' bgs.		(a)		357.8 354.1 250.6 14.1	▼ -					
5—		Black SANDY	Y GRAVEL.						11.2 4.6 10.7 9.6	_		
_			End of Boring	at 6' bgs.					0.4	-		
_										-		
_	= parts	per million w ground surfa	_	ws per foot Well Installe	ed S				-	_	e collected	
		Driller: Method: aspector:	Zebra Geoprobe 6620D GSC	T_	Date	_	1ea	sur	Water: rement: ect No.:		3.00 ft bgs 7/30/2012 569313.00002	

Soil Boring Log	Boring No.:	SB-368
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Proje	JCI.	The Dow Chen Philadelphia, P		Date Sta Date Fin	2 2							
Surv	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
-		Asphalt and cru	ished concrete and	brick.					0	-	N/W	
_		Black to Gray C	CLAY, odor.				(a)		3.1	_		
5—			End of Boring	g at 5' bgs.					46.2	-		
_										-		
	= parts	per million w ground surfac	_	ows per foot o Well Installe						_	e collected	
	rilling l Field In	Date o		1ea	sur	Water: ement: ct No.:		ft bgs 569313.00002				

Boring No.: SB-369

Projec	`T'	The Dow Cher Philadelphia, I		Date Sta Date Fin					9/11/12 9/11/12			
Surve Locati	-	N E	Ground Elevation:	ft.	Inner Casin Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
5—		Concrete. Black GRAVE to coarse sand Gray CLAY, h	L and SAND: mediu (saturated).		avel, medium	0000	(a)		1.6	- - - - - - -	N/W	
_	parts	per million w ground surface	bpf = blow $ce N/W = No$	vs per foot Well Installe	d Y					_	e collected appletion	
		Driller: Method:	Zebra Geoprobe 6620DT GSC		Date		/leas	sur	Water: ement: ct No.:		9.50 ft bgs 9/11/2012 569313.00002	

Project:	The Dow Chem		Monitoring Well No.: N/W Date Started: 9/11/12 Date Finished: 9/11/12									
Survey Location:	Philadelphia, P N E	Ground Elevation:	ft.	Inner Casii Elevation:			ft.		Outer Casing Elevation: ft.			
DEPTH, ft. ELEVATION (FT. ABOVEMSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
5	Concrete. Black GRAVEI	E, coarse. Gray GRAVELLY aturated).	SAND, coarse	sand, some		(a)		2.4 9.6	- - - - - - - -	N/W		
Notes: ppm = parts bgs = belov Drilling	w ground surfac	_	ws per foot Well Installe		▼ De _j	= w pth	vate to		l at con	e collected inpletion 9.00 ft bgs 9/11/2012		

Projec	`T'	The Dow Cher Philadelphia, I		Date Sta Date Fin					9/11/12 9/11/12			
Surve Locati	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft.			Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
5		White GRAVE	L, coarse. SAND, fine to coars L, coarse. SAND, fine to coars	se sand, trace g			(a)		1.7	- - -	N/W	
_	parts	per million w ground surfa	_	ows per foot Well Installe					-	_	e collected appletion	
		Driller: Method: aspector:	Zebra Geoprobe 6620D GSC	T			1eas	sur	Water: ement: ct No.:		4.50 ft bgs 9/11/2012 569313.00002	

Boring No.: SB-374

Projec	T'	The Dow Che Philadelphia,		Date Sta Date Fin					7/30/12 7/30/12			
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
5—		3' bgs.).	End of Boring	lasticity.	l (saturated at		(a)		2.4 2.7 240 243	- -	N/W	
	parts	per million w ground surfa	-	ows per foot Well Installe						_	e collected appletion	
	Driller: Zebra Drilling Method: Geoprobe 6620DT Field Inspector: GSC						1ea	sur	Water: ement: ct No.:		3.00 ft bgs 7/30/2012 569313.00002	

				Monitoring Well No.: N/W							
Project:	The Dow Chen Philadelphia, P			Date Sta Date Fin					9/11/1 9/11/1		
Survey Location	N E	Ground		Inner Casi	ng		•			r Casing	
DEPTH, ft.		Elevation:	ft.	Elevation:	LITHOLOGY		SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	well MATERIALS	
10	Concrete. Brown Fill, san Concrete. Black GRAVEI saturated).	d, silt, and clay. LLY SAND, mediu		nd (moist to		(a)			- - - - - - -	N/W	
	rts per million low ground surfac	_	ws per foot Well Installe	ed :					_	e collected appletion	
	Driller: ng Method: Inspector:	<u>Т</u>	Date		1eas	sur	Water: ement: ct No.:		11.00 ft bgs 9/11/2012 569313.00002		

Monitoring Well No.: N/W												
Project:	The Dow Philadelp		Company		Date Sta Date Fin					7/30/12 7/30/12		
Survey Location	N E		ound evation:	ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.	
DEPTH, ft.	(FT. ABOVE MSL)	STF	RATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5—	Fill, gray Brown to	gravel. Black SAN ND, mediu	oarse sand, with the coarse (with the co	o coarse.			(a) (a)		0.1 0.2 1.3 14.3 12.3 14.5 16.7 18.9 19.7		N/W	
	rts per millio		-	ws per foot Well Installe						_	e collected apletion	
	Driller: ng Method: I Inspector:	Geop	Zebra probe 6620D GSC	Γ			1ea	sur	Water: ement: ct No.:		3.00 ft bgs 7/30/2012 569313.00002	

	Monitoring Well No.: N/W											
Projec	Ct'	The Dow Chem Philadelphia, P	nical Company A		Date Sta Date Fin					9/11/12 9/11/12		
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ff.	(F. E.					LITHOLOGY	(pdq) LdS	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5——————————————————————————————————————			RAVEL, fine (satu GRAVEL, mediun End of Boring	n to coarse grav	vel	在外外,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个				- - - - - -	N/W	
	parts	per million v ground surfac	_	ws per foot Well Installe	ed :						e collected npletion	
		Driller: Zebra Drilling Method: Geoprobe 6620DT Field Inspector: GSC					1eas	sur	Water: ement: ct No.:		9.00 ft bgs 9/11/2012 569313.00002	

Date Started: The Dow Chemical Company 7/30/12 **Project: Date Finished:** 7/30/12 Philadelphia, PA Survey N Ground **Inner Casing Outer Casing** Location: E Elevation: ft. **Elevation:** ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Fill, asphalt and concrete fragments. Brown to Light Brown SAND with GRAVEL, medium sand. Black to Dark Brown SILTY SAND with GRAVEL. N/W (a) Black SILTY SAND, some wood fragments. 5-End of Boring at 8' bgs. Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed bgs = below ground surface **▼** = water level at completion Driller: Zebra Depth to Water: ft bgs Geoprobe 6620DT Drilling Method: Date of Measurement: **GSC** Project No.: 41569313.00002 Field Inspector:

Boring No.: SB-382

Project:	The Dow Chen Philadelphia, P			Date Sta Date Fin					8/3/12 8/3/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVEMSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5——————————————————————————————————————	Dark Brown GI White GRAVE Black to Dark F sand. Tan SAND with color change to Black SAND, c		medium to co dium sand. Y SAND, medium sand. um sand.	um to coarse		(a)		5.6 211.3	- - - - - - -	N/W
	s per million ow ground surfac	-	ows per foot Well Installe	ed <u>y</u>				-	_	e collected npletion
_	Driller:	Zebra Geoprobe 6620D GSC)T	Date	_	leas	sur	Water: ement: ct No.:		8.50 ft bgs 8/3/2012 569313.00002

Soil Boring Log Boring No.: SB-384 Monitoring Well No.: N/W **Date Started:** The Dow Chemical Company 8/3/12 **Project: Date Finished:** 8/3/12 Philadelphia, PA Survey N Ground **Inner Casing Outer Casing** Location: E Elevation: ft. **Elevation:** ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Concrete layered between asphalt. N/W Dark Gray GRAVELLY SAND, medium to coarse sand, lcoarse gravel. Concrete. Brick fragments Dark Brown SAND, medium to coarse sand. (a) White SAND, fine. Brown GRAVELLY SAND, medium to coarse sand, coarse (a) Asphalt 2.7 Dark Reddish Brown GRAVEL, medium to coarse (saturated). 10-End of Boring at 10' bgs. 15-

Notes:

ppm = parts per million

bpf = blows per foot

(a) = Analytical sample collected

bgs = below ground surface

N/W = No Well Installed

▼ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 7.25 ft bgs

Date of Measurement: 8/3/2012

Project No.: 41569313.00002

Boring No.: SB-385

Project:	The Dow Chem Philadelphia, P			Date Sta Date Fin					7/30/1 7/30/1	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng	1	ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	White to Brown coarse gravel. Black to Dark B White to Brown coarse gravel.	GRAVELLY SAI	ND, medium to	o coarse sand,		(a)			- -	N/W
Notes:		End of Boring							-	
	s per million ow ground surface	e N/W = No	ws per foot Well Installe	d :	<u> </u>	= w	ate	r level	l at con	e collected npletion
_	Driller: Method: Inspector:	Zebra Geoprobe 6620D GSC	Τ	Date	of M	leas	ure	Water: ement: et No.:		5.00 ft bgs 7/30/2012 569313.00002

Boring No.: SB-386

Monitoring Well No.: N/W The Dow Chemical Company **Date Started:** 8/3/12 **Project: Date Finished:** 8/3/12 Philadelphia, PA Survey N Ground **Inner Casing Outer Casing** Location: E Elevation: ft. **Elevation:** ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt and Concrete. (a) Dark Brown GRAVELLY SAND, medium to coarse sand, N/W coarse gravel, some silt. White GRAVEL, coarse. Dark Brown to Black GRAVELLY SAND, fine to coarse medium gray gravel. Black SAND, fine to coarse, trace gravel, dry becoming wet (a) towards base. Black GRAVEL, medium, saturated. Ţ Dark Gray to Gray CLAY, some gravel, saturated Black GRAVEL, medium, saturated. 10-End of Boring at 10' bgs. 15-Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed bgs = below ground surface **▼** = water level at completion Driller: Zebra Depth to Water: 8.50 ft bgs Drilling Method: Geoprobe 6620DT 8/3/2012 Date of Measurement: **GSC** Project No.: 41569313.00002 Field Inspector:

						lon	itor	ing W	/ell N	o.: N/W
Proje	Ct.	The Dow Che Philadelphia,	mical Company PA		Date Sta Date Fin				7/31/1 7/31/1	
Surve	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng	ft	•		er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt. Crushed Conc	erete.				(a)		-	N/W
5—		Brown to Blac silt.	ck SAND, medium t	o coarse, little	gravel, little		(a)		- -	
	====	Brick Fragmer Black SAND, bgs.).	ntscoarse, some gravel	, trace silt (satu					¥ -	
10		Black to Gray fragments.	CLAY, little silt, tra		wood/organic				_	
_									-	
- -									- -	
_									-	
	= parts	per million w ground surfa	-	ows per foot Well Installe	ed 2				_	e collected npletion
		Driller: Method: nspector:	Zebra Geoprobe 6620D GSC	T	Date		1easu	Water: rement: ect No.:		7.50 ft bgs 7/31/2012 569313.00002

Project:	The Dow Chen Philadelphia, P			Date Sta Date Fin					8/3/12 8/3/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casin	ng		ft.			r Casing ation: ft.
DEPTH, ft. ELEVATION		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	Brown SAND, Dark Brown GF becoming wet to	fine to medium. RAVELLY SAND owards base. CLAY, saturated a LLY SAND, coars End of Boring	, medium to co	arse sand, dry		(a)			- - - - - - - -	N/W
	ts per million ow ground surfac	-	ows per foot o Well Installe	d :					_	e collected apletion
	Driller: g Method: Inspector:	Zebra Geoprobe 6620E GSC)T	Date		1ea	sur	Water: ement: ct No.:		8.00 ft bgs 8/3/2012 569313.00002

					IV.	ion	Itol	ing v	veii N	o.: N/W
Proje	Ct.	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin				8/3/12 8/3/12	
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	f	t		er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS
		Asphalt and Co	oncrete.							
_		Brown SAND,	medium.				(a)		-	N/W
5—		Brown SAND,	fine to medium.				(a)		-	
-		√7' bgs.).	SANDY GRAVEL GRAVEL, fine to		·	00000000			-	
10			End of Boring	at 10' bgs.		Ø:			-	
_									-	
									-	
-									-	
-									-	
15—									-	
-									-	
_									-	
-									-	
_									-	
	= parts	per million w ground surface	_	ws per foot Well Installe					_	e collected upletion
		Driller: Method:	Zebra Geoprobe 6620D GSC	T	Date o		1easi	o Wate urementiect No	t:	7.00 ft bgs 8/3/2012 569313.00002

Proje	JCt.	The Dow Chen Philadelphia, P	nical Company PA		Date Sta Date Fin					8/3/12 8/3/12	
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		Asphalt, Brick, Light Brown SI	and Concrete. LTY SAND, fine	to coarse sand,	some gravel.		(a)			-	N/W
5—		Dark Brown GI some crushed b	RAVELLY SAND rick.	, medium to co	arse sand,					_	
_		Dark Brown GI (moist).	RAVELLY SAND GRAVEL (saturat		arse sand	000000	(a)			- - <u>▼</u> -	
10— — —			End of Boring	at 10' bgs.		0				- - -	
_ 15— _ _										- - -	
Notes	s:									_	
	_	per million w ground surfac	-	ows per foot o Well Installe							e collected apletion
	_	Driller: Method:	Zebra Geoprobe 6620D GSC)T			1eas	sur	Water: ement: ct No.:		8.00 ft bgs 8/3/2012 569313.00002

Date Started: The Dow Chemical Company 8/3/12 Project: **Date Finished:** 8/3/12 Philadelphia, PA Survey N Ground **Inner Casing Outer Casing** Location: E Elevation: ft. **Elevation:** ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt, Brick, and Concrete. (a) N/W Brown SAND, medium. Dark Brown GRAVELLY SAND, fine to coarse sand, increasing moisture with depth. (a) E Dark Brown SILT (saturated at 8' bgs.). Ţ NO RECOVERY. 10-End of Boring at 10' bgs. 15-Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed bgs = below ground surface **▼** = water level at completion Driller: Zebra Depth to Water: 8.00 ft bgs Geoprobe 6620DT Drilling Method: Date of Measurement: 8/3/2012 Field Inspector: **GSC** Project No.: 41569313.00002

Project.	The Dow Chem Philadelphia, P			Date Sta Date Fin					7/31/1 7/31/1	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	1	ft.			r Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	Brown SANDY Gray SAND, fin Brown to Gray G	te to medium, with CLAY with brick f	brick fragmen ragments (moi	st).		(a)		27.3	- - - - - - - - -	N/W
Notes: ppm = parts bgs = below	per million w ground surface	-	ws per foot Well Installe							e collected apletion
Drilling Field Ir	Driller: Method:C aspector:	Zebra Geoprobe 6620D GSC	T			1eas	ure	Water: ement: ct No.:		8.50 ft bgs 7/31/2012 569313.00002

Boring No.: SB-393
Monitoring Well No.: N/W

Project:	The Dow Ch Philadelphia	emical Company ı, PA		Date Sta Date Fin					7/31/1 7/31/1	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.			r Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
- - - - - - - - - -	Brown SAN Pink Crushed Brown SAN	D, fine to medium, midd Rock. D with GRAVEL, fine SANDY SILT with Gl 9.5' bgs.).	to medium sa			(a)			- - - -	N/W
) - - - - - - -		End of Boring a	t 10' bgs.						- - - - -	
	s per million w ground sur	$\begin{array}{cc} bpf &= blow \\ face & N/W = No \end{array}$	vs per foot Well Installe	ed :				-	_	e collected
_	Driller: _ Method: _ nspector:	Zebra Geoprobe 6620DT GSC		Date	of M	eas	sur	Water: ement: ct No.:		9.50 ft bgs 7/31/2012 569313.00002

Survey N Elevation: ft. Inner Casing Elevation: ft. Inner Casi	Project:	The Dow Ch	emical Company		Date Sta	rted	l:		_	7/31/1 7/31/1	
Concrete, Asphalt, and Brick. Dark Brown to Black GRAVELLY SAND, medium to coarse sand. Brick fragments. saturated at 9' bgs. End of Boring at 10' bgs. End of Boring at 10' bgs. Sometimes of the sample of th	Survey	N	Ground	ft.	Inner Casii			t.		Oute	er Casing
Dark Brown to Black GRAVELLY SAND, medium to coarse sand. Brick fragments. saturated at 9' bgs. End of Boring at 10' bgs. End of Boring at 10' bgs. Some saturated at 9' bgs. Analytical sample collected sps = below ground surface N/W = No Well Installed (a) = Analytical sample collected we are water level at completion	DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAINIPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	
$\begin{array}{ll} \text{opm} = \text{parts per million} & \text{bpf} = \text{blows per foot} \\ \text{ogs} = \text{below ground surface} & \text{N/W} = \text{No Well Installed} \\ \end{array} \qquad \begin{array}{ll} \textbf{(a)} = \text{Analytical sample collected} \\ \textbf{\Psi} = \text{water level at completion} \\ \end{array}$	0	Dark Brown sand. Brick fragme	to Black GRAVELL' ents. ' bgs.		um to coarse					- - - - - - - - -	N/W
Dinici. Zevia Dedii 10 watei. 9.00 Il Des	opm = parts	_	_	-	ed S	<u> </u>	= wa	iter	leve	at con	

Proje	Ct.	The Dow Che Philadelphia,	mical Company PA		Date Sta Date Fin					9/12/1 9/12/1	
Surve	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.			r Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
			Fragments, Crushe		ium cond		(a)			- -	N/W
5—		Brown CLAY	ravel.		ium sand,				0.1 0.1 0.0	- -	
.0—		Brown to Blac	k SAND, coarse, w	hite clay lense,	(dry).		(a)		0.1 160 7.2	- - -	
		Black GRAVE	ELLY SAND, coarse	e sand.		0 0 0 0 0			2.5 3.6 2.4	- - -	
15 - - -			End of Boring	at 15' bgs.					1.5	- - - -	
	= parts	per million w ground surfa	_	ows per foot Well Installe	ed 2				-	_	collected
	-	Driller: Method: spector:	Zebra Geoprobe 6620D GSC	T	Date		1ea	sur	Water: ement: ct No.:		5.50 ft bgs 9/12/2012 569313.00002

				IV	lon —	itor	ing v	/eli N	o.: N/W
Project:	The Dow Che Philadelphia,	mical Company PA		Date Sta Date Fin				7/31/1 7/31/1	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng	ft			r Casing ation: ft.
DEPTH, ft. ELEVATION	(T. ABOVE MOL)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5——————————————————————————————————————	Brown SILTY Black SAND, Brown SAND	rel Roadbase with b Fill with black to b, trace clay. CLAY, little fine to medium to coarse, medium, little SIL SANDY CLAY, little fine to the medium to coarse, leads to the medium, little SIL	o medium SAN little SILT, trac T, little GRAV	to coarse ID. e gravel. EL.		(a) (a)	3.2		N/W
	ts per million low ground surfa	N/W = Nc	ows per foot o Well Installe	ed <u>Y</u>			-	_	e collected appletion
	Driller: g Method: Inspector:	Zebra Geoprobe 6620D GSC)T	Date	-	1easu	Water rement ect No.:		10.00 ft bgs 7/31/2012 569313.00002

S	oil Bo	oring Log					_		SB-39 /ell No	7 o.: N/W
Proje	JCI.	The Dow Chen Philadelphia, P	nical Company PA		Date St Date Fi				7/31/12 7/31/12	
Surv Loca	ey tion:	N E	Ground Elevation:	ft.	Inner Cas Elevation	_	ft.		Outer Eleva	Casing tion: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		concrete.	parse, some gravel v				(a)		-	N/W
_		Brown to Black gravel, brick an	SAND, medium to d wood fragments.	coarse, little	silt, little				_	
_										
5										
_							(a)		_	
_										
_								71		
0										
_									_	
_								79		
_									_	
15			End of Boring	at 15' bgs.					_	
_									_	
_										
_										

ppm = parts per million
bgs = below ground surface

bpf = blows per foot

N/W = No Well Installed

(a) = Analytical sample collected

 $\underline{\Psi}$ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: ft bgs

Date of Measurement: 41569313.00002

Soil Boring Log Boring No.: SB-398 Monitoring Well No.: N/W Project: The Dow Chemical Company Date Started: 9/12/12

I Project:							9/12/12 9/12/12						
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.				
DEPTH, ft. ELEVATION (FT. ABOVEMSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC		WELL FERIALS		
5—————————————————————————————————————	Dark Brown to sand, some coar	some sand, trace g Black GRAVELL' rse gravel (saturate some fine to coarse	Y SAND, fine d). e sand and grav			(a)			- - - - - - -	N/W			
Notes: ppm = parts bgs = below	per million w ground surfac		ows per foot Well Installe						_	e collected	I		

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 5.00 ft bgs

Date of Measurement: 9/12/2012

Project No.: 41569313.00002

	l Boring Log		Boring No.: SB-399 Monitoring Well No.: N/W							
Project	The Dow Che Philadelphia,	mical Company PA	Date Sta Date Fin				9/12/1 9/12/1			
Survey Location		Ground Elevation: ft.	Inner Casii Elevation:	ng	f	t.		er Casing ation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)	STRATIGRAPHIC DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
_ _ _ _	Fill.						- - -	N/W		
5		k Brown GRAVELLY SAND, fine t. ELLY SAND (saturated at 7' bgs.)	to coarse		(a)	2.5 26.3 162.4 17.2	- ¥ - -			
- - -		End of Boring at 10' bgs.				10.7	- - - -			
- - - -							- - - -			
	parts per million below ground surfa	bpf = blows per foot $ce N/W = No Well Installe$					sample	e collected		

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 7.00 ft bgs

Date of Measurement: 9/12/2012

Project No.: 41569313.00002

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 8.00 ft bgs

Date of Measurement: 9/12/2012

Project No.: 41569313.00002

Soil Boring Lo	og		Boring No.: SB-401 Monitoring Well No.: N/W								
Project: The Dow	Chemical Company hia, PA		Date Starte Date Finis				9/12/12 9/12/12				
Survey N Location: E	Ground Elevation:		Inner Casing Elevation: ft.					r Casing ation: ft.			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)	STRATIGRAPHIC I	DESCRIPTION	XCO IOTEL	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS			
Asphalt a	nd Brick Fragments.						_	N/W			
Black SA bgs.).	NDY SILT, trace coarse	gravel (saturated	at 4.5'	(a)			- - <u>•</u>				
- - -	Black SILTY CLAY.						- - -				
- - - -	End of Boring	at 10' bgs.					- - -				
15— — — —							- - -				
Notes: ppm = parts per million bgs = below ground s	•	ws per foot	(a Y				_	e collected			

Drilling Method: Geoprobe 6620DT
Field Inspector: GSC

Depth to Water: 4.50 ft bgs

Date of Measurement: 9/12/2012

Project No.: 41569313.00002

Monitoring Well No.: N/W												
Project:	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin					9/12/12 9/12/12			
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	-					Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
5	Brown GRAVI Black CLAY. Micaceous sand	ELLY SAND (saturated). End of Boring	rated).			(a)		2.1 0.7 17.3 0.1 7.3 2.1 3.1	- - - - - - -	N/W		
	ts per million ow ground surfac	ee N/W = Nc	ows per foot o Well Installe	d y	<u> </u>	= w	ate	er level	l at con	e collected apletion		
	Driller: g Method: Inspector:	Zebra Geoprobe 6620D GSC	OT			1ea	sur	Water: ement: ct No.:		5.50 ft bgs 9/12/2012 569313.00002		

Monitoring Well No.: N/W												
Project:		ow Chemic lelphia, PA	cal Company		Date Sta Date Fin					9/12/1 9/12/1		
Survey Location	-					ng		ft.		Outer Casing Elevation: ft.		
DEPTH, ft.	(FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5——————————————————————————————————————	color Oran	change to by ge SAND, fix	rown. ne to coarse. Y SAND, mediur SAND, mediur	n to coarse sa			(a)		126.7 113.1 89.3 17.3 6.1 7.3 2.1 1.9 3.1	- - - - - - -	N/W	
	arts per m	illion and surface	bpf = blow N/W = No	vs per foot Well Installe	ed :					_	collected	
	Drille ing Metho	d: Ge	Zebra eoprobe 6620DT GSC	·	Date		1ea	sur	Water: ement: ct No.:		7.00 ft bgs 9/12/2012 569313.00002	

S	oil B	oring Log			Boring No.: SB-404 Monitoring Well No.: N/W								
Proje	ect:	The Dow Chem Philadelphia, P		Date Sta Date Fin				9/12/1: 9/12/1:					
Surv Loca	ey tion:	N E	Ground Elevation:					r Casing ation: ft.					
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS			
_		Asphalt.	RAVELLY SAND	medium to co	arse	0	(a)		_	N/W			
			nedium to coarse, s			0 (_	14, 44			
_									_				
5—		Brown SILTY S bgs.).	SAND, coarse sand	l, trace gravel (saturated at 7'		(a)		_ 				
_ _	- ·	Brick fragments	s, some sand (satur	ated).					T -				
10—			End of Boring	at 10' bgs.					- -				
_									_ _				
_									_ _				
15—									_				
_									_				
_ _									-				
	= parts	s per million		ws per foot Well Installe						collected			

Driller: Zebra Drilling Method: Geoprobe 6620DT GSC Field Inspector:

Depth to Water: 7.00 ft bgs 9/12/2012 Date of Measurement: 41569313.00002 Project No.:

Monitoring Well No.: N/W											
Project:	The Dow Chem Philadelphia, P			Date Started: Date Finished:					9/12/12 9/12/12		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.	
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC			LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5——————————————————————————————————————		End of Boring	coarse GRAV	EL (saturated		(a)		0.1 0.1 2.5 0.0 0.1 6.5 124.1 163 173 551	- - - - - - - -	N/W	
Notes: ppm = parts bgs = below	per million w ground surfac Driller:	_	ws per foot Well Installe		<u> </u>	= w	ate		at con	e collected appletion 8.00 ft bgs	
Drilling Field Ir	Method:	Geoprobe 6620D GSC	<u>T</u>	Date	of M			ement: ct No.:		9/12/2012 569313.00002	

Soil B	oring Log		Boring No.: SB-406 Monitoring Well No.: N/W								
Project:	The Dow Cher Philadelphia, F	mical Company PA	Date Star Date Fini				9/11/1 9/11/1				
Survey Location:	N E	Ground Elevation: ft.	Inner Casin Elevation:	ng	f	!.		er Casing ation: ft.			
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
- - - - - - - - - - - - - - - - - - -	Concrete. Black GRAVE	ELLY SAND, medium to coarse (so	aturated).		(a)	2.4		N/W			

bgs = below ground surface

N/W = No Well Installed

▼ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

 Depth to Water:
 4.00 ft bgs

 Date of Measurement:
 9/11/2012

 Project No.:
 41569313.00002

Soil Bo	oring Log							SB-40 /ell N	07 o.: N/W
Project.	The Dow Chem Philadelphia, P.			Date Star Date Fini				9/11/1: 9/11/1:	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casin Elevation:	ng	ft.			r Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DE	SCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	Fill.					(a)		-	N/W
5—	Concrete. Red and Black (GRAVELLY SAND	(saturated).					<u> </u>	
10—		End of Boring at	t 9' bgs.	ļ	0 (- -	
								- - -	
15— — — —								- -	
Notes: ppm = parts	per million w ground surface	bpf = blows e N/W = No V							e collected

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 4.00 ft bgs

Date of Measurement: 9/11/2012

Project No.: 41569313.00002

Soil B	oring Log					_			SB-40 /ell No	08 o.: N/W
Project:	The Dow Chem Philadelphia, P			Date Sta Date Fin					9/11/12 9/11/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Oute Eleva	r Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVEMSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—————————————————————————————————————	Concrete. Dark Brown to 1 (saturated at 5' b	Black GRAVELLY ogs.). End of Boring		um to coarse	東国師師師師師師師師師師師師師師師師 はっているのでは、「中国的時期時期時期時期時期時期時期時期時期時期時期時期時期時期時期時期時期時期時期	(a)			- -	N/W
	s per million w ground surface	bpf = blow $e N/W = No$	vs per foot Well Installe						_	collected
	Driller: Method: Onspector:	Zebra Geoprobe 6620DT		Date o		1eas	sur	Water: ement:		5.00 ft bgs 9/11/2012 569313 00002

Soi	I Bo	ring Log					_			SB-40 /ell No	09 o.: N/W
Project	T'	The Dow Chem Philadelphia, P			Date Sta Date Fin					9/11/1: 9/11/1:	
Survey Location		N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.			r Casing ation: ft.
ОЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	PESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—————————————————————————————————————	narts	(saturated at 5' b	End of Boring	at 5' bgs.	um to coarse		(a)	na	lytical	samnle	N/W
		per million v ground surface	bpf = blow $N/W = No$	vs per foot Well Installe	d :					_	collected apletion
		Driller: On the control of the	Zebra Geoprobe 6620DT GSC		Date		1eas	sur	Water: ement: ct No.:		5.00 ft bgs 9/11/2012 569313.00002

Soil B	oring Log					_		lo.: S		10 o.: N/W
Project:	The Dow Chen Philadelphia, F			Date Sta Date Fin					8/1/12 8/1/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5	Black SANDY Brown to Black	GRAVEL (saturate	ed).		等,是不是不是不是不是不是不是不是。 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(a)			- - - ¥ -	N/W
- 10 - - - - 15 - - -		End of Boring	at 10' bgs.						- - - - -	
	s per million ow ground surfac	_	ws per foot Well Installe						_	e collected apletion
	Driller: Method:	Zebra Geoprobe 6620D' GSC	Γ			1ea	sur	Water: ement: ct No.:		5.00 ft bgs 8/1/2012 569313.00002

Soil Boring Log Boring No.: SB-411 Monitoring Well No.: N/W

Project:	The Dow Chen Philadelphia, P			Date Sta Date Fin	rtec	d:	- 4 1		8/6/12 8/6/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5	Brown to Light	RAVELLY SAND Brown SAND, fir	RAVEL, fine to			(a)				N/W
	s per million ow ground surfac	_	ows per foot Well Installe						_	e collected
	Driller: Method: nspector:	Zebra Geoprobe 6620D GSC	T			1eas	sur	Water: ement: ct No.:		7.00 ft bgs 8/6/2012 569313.00002

Proje	Ct.	The Dow Che Philadelphia,	emical Company PA		Date Sta Date Fir					8/6/12 8/6/12	
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5——————————————————————————————————————			GRAVELLY SAND, a saturated at 4.75' bg	some SANDYs.	GRAVEL,		(a)			-	N/W
_	= parts	per million w ground surf	_	ws per foot Well Installe	ed					_	e collected
		Driller: Method: aspector:	Zebra Geoprobe 6620D GSC	<u>T</u>	Date		1eas	sur	Water: ement: ct No.:		4.75 ft bgs 8/6/2012 569313.00002

Project:	The Dow Cher Philadelphia, I	mical Company PA		Date Sta Date Fin					8/6/12 8/6/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5	white GRAVE sand.	RAVELLY SAND, and coarse gravel. EL with SAND, coarse gravel. EL, dry becoming sa	rse gravel, fine fine to coarse aturated near ba	to coarse	甲甲甲甲甲基 美国人名 医克里克 美国人名 医克里克 美国美国美国美国自由自由美国美国美国美国主义 医克里克 美国人名 医克里克克 医克里克克克克克克克克克克克克克克克克克克克克克克克克克克克克克	(a)			- -	N/W
Notes: ppm = parts bgs = belog Drilling	w ground surfa	-	ows per foot Well Installe	ed <u>y</u>	▼ De _l	= v pth	vate to	-	l at con	e collected inpletion 4.00 ft bgs 8/6/2012

Proje	Ct.	The Dow Cho Philadelphia	emical Company , PA		Date Sta Date Fir					8/6/12 8/6/12	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			r Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5——————————————————————————————————————		Black to Red	d GRAVELLY SAN bist towards base. GRAVELLY SAND sturated at 5' bgs.). End of Boring	, fine to coarse			(a)		0.8 1.6 2.3 2.5	- - - - - - -	N/W
_	= parts	per million w ground surf	-	ws per foot Well Installe	ed					_	e collected apletion
		Driller: Method: aspector:	Zebra Geoprobe 6620D GSC	T	Date	-	lea:	sur	Water: rement: ect No.:		5.00 ft bgs 8/6/2012 569313.00002

				N	/lon	iito)rı	ng w	eli N	o.: N/W
Project:	The Dow Che Philadelphia,	emical Company PA		Date Sta Date Fir					8/6/12 8/6/12	
Survey Location	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5	color change color change color change	GRAVELLY SAND. to brown. to reddish brown. to yellowish brown (Y GRAVEL with wo	<u>moist).</u> ood fragments (saturated at				0.1 9.0 6.3 1.7 5.3 81.6 9.6 6.3 0.7 0.0	- - - - - -	N/W
	rts per million low ground surfa	_	ows per foot Well Installe	ed					_	e collected npletion
	Driller: ng Method: Inspector:	Zebra Geoprobe 6620D GSC	<u>T</u>	Date		1ea	sur	Water: ement: ct No.:		5.50 ft bgs 8/6/2012 569313.00002

Driller: Zebra Geoprobe 6620DT Drilling Method: Field Inspector: **GSC**

Depth to Water: 5.50 ft bgs Date of Measurement: 8/1/2012 Project No.: 41569313.00002

Soil E	Boring Log					_		SB-41 /ell No	8 o.: N/W
Project:	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin				8/1/12 8/1/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng	ft.		Oute Eleva	r Casing ation: ft.
DEPTH, ft. ELEVATION		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—————————————————————————————————————	Brown GRAVE	ELLY SAND, coarse ft (saturated at 7' bgs L (saturated). End of Boring a	s.).	ragments.		(a) (a)	1.4 2.2 0.4 0.2	- - - - - - - - - -	N/W

ppm = parts per million

bpf = blows per foot

(a) = Analytical sample collected

bgs = below ground surface N/W = No Well Installed Ψ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

 Depth to Water:
 7.00 ft bgs

 Date of Measurement:
 8/1/2012

 Project No.:
 41569313.00002

bgs = below ground surface

N/W = No Well Installed

▼ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 6.50 ft bgs

Date of Measurement: 8/1/2012

Project No.: 41569313.00002

So	oil Bo	oring Log					_			SB-42 /ell N	20 o.: N/W
Proje	Ct.	The Dow Chen Philadelphia, P			Date Sta Date Fin					8/1/12 8/1/12	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Crushed Concre	ete and Brick.	coarse sand.		0 ((a)			-	N/W
5—		Black GRAVE	LLY SAND with CI	 .AY.					0.3	- - -	
_		bgs (wet).	LLY SAND, coarse GRAVEL (saturated		agments at 6'	0.1	(a)		5.4 812.4	_ -	
10									1.4 0.8 1.3	- - _	
_			End of Boring a	it 10 ogs.						-	
_ _ 15—										- - _	
_										-	
_										-	
	= parts	per million w ground surfac	bpf = blow $e N/W = No$	vs per foot Well Installe	d :					_	e collected

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

 Depth to Water:
 7.00 ft bgs

 Date of Measurement:
 8/1/2012

 Project No.:
 41569313.00002

Project:	The Dow Cher Philadelphia, I	mical Company PA		Date Sta Date Fin					8/1/12 8/1/12	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	f	t.			r Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—	Dark Brown to and quartzite fi Black to Dark coal-like fragm	Brown GRAVELL lents. LAY with SAND. GRAVEL (saturated)	Y SAND, coars Y SAND, coars			(a)			- - - - - - - -	N/W
Notes: ppm = parts bgs = belo	per million w ground surfac	-	ows per foot o Well Installe				-		_	e collected apletion
Drilling Field Ir	Driller: Method: nspector:	Zebra Geoprobe 6620E GSC	<u>DT</u>	Date of	of M	leas	ure	Vater: ment: No.:		8.00 ft bgs 8/1/2012 569313.00002

			IV	o.: N/W							
Projec	CT'	The Dow Chen Philadelphia, P	nical Company		Date Sta Date Fin				8/1/12 8/1/12		
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft			er Casing ation: ft.	
DЕРТН, ff.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
5—		Brown SAND,	GRAVELLY SAI						- - -	N/W	
10		Brown SANDY End of Boring a	t 10' bgs.	at 8' bgs.).					- - - -		
	parts	per million w ground surfac	_	ows per foot Well Installe					_	e collected npletion	
		Driller: Method: spector:	Zebra Geoprobe 6620D GSC	T	Date		1easu	Water: rement: ect No.:		8.00 ft bgs 8/1/2012 569313.00002	

Proje	Project: The Dow Chemical Company Date Philadelphia, PA Date									8/1/12 8/1/12	
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			r Casing ation: ft.
DEPTH, ff.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5——————————————————————————————————————		Dark Brown SII sand (dry). Brown CLAYE	TY SAND with C	GRAVEL, fine	to medium) O = = = = = = = = = = = = = = = = = =	(a)				N/W
	= parts	per million w ground surface		ows per foot Well Installe							e collected appletion
	-	Driller: Method: spector:	Zebra Geoprobe 6620D GSC	<u>T</u>			Леа	sur	Water: ement: ct No.:		5.50 ft bgs 8/1/2012 569313.00002

Boring No.: SB-424

Proje	Ct.	The Dow Chen Philadelphia, F	Date Sta	rted	i:	/I I	ily W	8/1/12 8/1/12			
Surve	ey	N E	Ground Elevation:	ft.	Inner Casing Elevation:					Oute	r Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5——————————————————————————————————————		Black GRAVEI Dark Brown CI Brown to Light	with GRAVEL, fin	o medium sand ————————————————————————————————————	 rse sand (dry).		(a)				N/W
	= parts	per million w ground surfac	_	ows per foot o Well Installe					-	_	e collected apletion
		Driller: Method: aspector:	Zebra Geoprobe 6620D GSC	DT			1eas	sur	Water: ement: ct No.:		8.00 ft bgs 8/1/2012 569313.00002

Boring No.: SB-425

Project:	The Dow C Philadelph	Date Sta Date Fin				8/1/12 8/1/12					
Survey Locatio	N n: E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft		Outer Casing Elevation: ft.			
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
5———	Gray GRA	VELLY SAND, fine to	medium sand ((a) (a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		¥ -	N/W		
	arts per million below ground su	•	ws per foot Well Installed						e collected npletion		
	Driller: ing Method: ld Inspector:	Zebra Geoprobe 6620D GSC	T		of M	leasu	Water rement ect No.		4.00 ft bgs 8/1/2012 569313.00002		

Proje	oct.	The Dow Chen		Date Sta	rtec	d:	ing	8/1/1	8/1/12 8/1/12		
Surv Loca		N E	Ground Elevation:	Inner Casi ft. Elevation:				t.	Out	er Casing vation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil	WELL SCHEMATIC	WELL MATERIALS	
			RAVELLY SAND,				(a)			N/W	
5		Dark Brown Cl	LAY. End of Boring	g at 5' bgs.		o (_		
Notes		per million	hnf = blo	ows per foot		(a)	= A	nalyti	eal sampl	e collected	
bgs D	= below	w ground surface Driller:	_	Well Installe	Date	▼ De _j	= water	ter le o Wa	vel at cor	2.50 ft bgs 8/1/2012 1569313.00002	

N/W

Boring No.: SB-427 **Soil Boring Log** Monitoring Well No.: N/W **Date Started:** The Dow Chemical Company 8/1/12 **Project: Date Finished:** 8/1/12 Philadelphia, PA Survey N Ground **Inner Casing Outer Casing** Location: E Elevation: ft. **Elevation:** ft. Elevation: ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt Crushed Brick and Gravel Fill. Dark Brown GRAVELLY SAND, fine to coarse sand, moist, (a) saturated at 2.5' bgs.

₹ Dark Brown GRAVEL, wood fragments (saturated). 0.2 Brown SILTY CLAY. 5 End of Boring at 5' bgs. Notes:

bpf = blows per foot

Zebra

Geoprobe 6620DT

GSC

N/W = No Well Installed

2.50 ft bgs

8/1/2012

41569313.00002

(a) = Analytical sample collected

▼ = water level at completion

Depth to Water:

Project No.:

Date of Measurement:

ppm = parts per million

Drilling Method:

Field Inspector:

bgs = below ground surface

Driller:

Project:	The Dow Chen Philadelphia, P	Date Sta Date Fin					8/1/12 8/1/12				
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
5—			GRAVEL, fine			(a) (a)			- - -	N/W	
	s per million www.ground.surfac	ee N/W = Nc	ows per foot Well Installe	ed 1	<u> </u>	= v	vate	er level	at con	e collected npletion	
	Driller: Method: nspector:	Zebra Geoprobe 6620D GSC	T			1ea	sur	Water: ement: ct No.:		3.50 ft bgs 8/1/2012 569313.00002	

Notes:

ppm = parts per million

bpf = blows per foot

(a) = Analytical sample collected

bgs = below ground surface

N/W = No Well Installed

▼ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 4.50 ft bgs

Date of Measurement: 8/1/2012

Project No.: 41569313.00002

i roject.		Date Fin	ished	d:		8/31/12				
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng	ft.		Outer Casing Elevation: ft.		
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
5—	Brown SANI	VELLY SAND, medit DY SILT (dry). OY GRAVEL, trace classes the second se	ay (saturated a						N/W	

Notes:

ppm = parts per million
bgs = below ground surface

bpf = blows per foot

N/W = No Well Installed

(a) = Analytical sample collected

▼ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 2.00 ft bgs

Date of Measurement: 8/31/2012

Project No.: 41569313.00002

Boring No.: SB-432
Monitoring Well No.: N/W

Project	: T	Date Sta Date Fin					8/1/12 8/1/12					
Survey Locatio		N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5—		Black GRAVI fragments (mo Light Brown (moist).	ELLY SAND, mediubist). GRAVELLY SAND o Brown SAND with aturated at 3' bgs.). End of Boring	medium to co	arse sand	日本日本の「「「「「「「「」」」」 「「「」」」 「「」」 「「」」 「「」」 「「」	(a)			- - -	N/W	
bgs =	below	per million v ground surfa Driller: Method: spector:	_	ows per foot Well Installe		Dep	= w oth	to sur	-	at con	2 collected expletion 3.00 ft bgs 8/1/2012 569313.00002	

Proje	ect:	Date Sta Date Fin				8/1/12 8/1/12						
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		Crushed Cond	crete and Asphalt.									
		Black to Brov	vn GRAVELLY SA	ND, fine to coa	rse sand.							
-		Brown SILTY	SAND, fine to med	lium sand (moi	st).					-	N/W	
		Black SAND	Y GRAVEL, moist,	saturated at 2.5	bgs.	0						
		color change t	to brown.							▼		
										_		
			End of Boring	g at 4' bgs.								
5										_		
_										_		
_										_		
										_		
										_		
Notes	s:	l						<u> </u>	<u> </u>	<u>I</u>	I	
		per million w ground surfa	-	ows per foot Well Installe					-	_	e collected apletion	
	-	Driller: Method: aspector:	Zebra Geoprobe 6620D GSC	T		-	1ea	sur	Water: ement: ct No.:		2.50 ft bgs 8/1/2012 569313.00002	

Project:	Date Sta Date Fin					8/7/12 8/7/12				
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5———	Gray GRAVEL Gray to Black (saturated).	GRAVELLY SAN		e sand	在这是这是这是这是这是这是这是这是这是这是这是这是是是一个人的的人人的。 我是这是这是这是这是这是这是这是这是这是这是这是这是这是是是是是一个人的的人的人的人的	(a)			- - -	N/W
Notes: opm = parts ogs = below	per million w ground surfac	-	ows per foot Well Installe						_	e collected npletion
Drilling I Field In	Driller: Method:	Zebra Geoprobe 6620D GSC	oT		of M	leas	sur	Water: ement: ct No.:		3.50 ft bgs 8/7/2012 569313.00002

Soil Boring Log	Boring No.: SB-436
Con Boring Log	Borning No.: OB 400

Proje	JCt.	The Dow Chen Philadelphia, P	Date Sta	Date Started: Date Finished:					o.: N/W 2 2			
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.			Outer Casing Elevation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5			GRAVEL, medium ated towards base. Fine to medium (sa	turated).	el, dry	是这是这是这是这是这是这是这是这是这是一个人的人的人的人的人的人的人的人的人的人的人。 就是就是就是就是就是就是就是就是就是就是就是我们的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人	(a)			- - -	N/W	
	= parts	per million w ground surfac	_	ws per foot Well Installe						_	e collected npletion	
		Driller: Method: nspector:	Zebra Geoprobe 6620D GSC	T			1eas	sur	Water: ement: ct No.:		3.00 ft bgs 8/7/2012 569313.00002	

Proje	Ct.	The Dow Chen Philadelphia, F	nical Company		Date Sta	rtec	d:			/ell No.: N/W 8/7/12 8/7/12		
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	Inner Casing Elevation: ft.					r Casing ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5—		becoming satur	SANDY GRAVEL ated towards base. End of Boring	vel (saturated)		では、一般のでは、100mmのでは、1	(a)			- - -	N/W	
	= parts	per million w ground surfac	_	ows per foot Well Installe	ed :					_	e collected apletion	
		Driller: Method:	Zebra Geoprobe 6620D GSC	T	Date		1ea	sur	Water: ement: ct No.:		3.00 ft bgs 8/7/2012 569313.00002	

Proje	Ct.	The Dow Chen Philadelphia, P		Date Sta Date Fin	rtec	d:		ng w	8/7/12 8/7/12			
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ¶.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
5		↑Gray GRAVEL	SILTY SAND, fine (saturated at 4.5' b, angular (saturated SAND, fine to med saturated). End of Boring	d)dium (saturated	I		(a)		0.4	-	N/W	
	= parts	per million w ground surfac	_	ows per foot Well Installe						_	e collected appletion	
		Driller: Method:	Zebra Geoprobe 6620D GSC	T			1ea	sur	Water: ement: ct No.:		4.50 ft bgs 8/7/2012 569313.00002	

Monitoring Well No.: N/W												
Proje	CT.	The Dow Chem Philadelphia, P			Date Sta Date Fin					8/13/1 8/13/1		
Surve	-	N E	Ground Elevation:	ft.	Inner Casir Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	(pdq) LdS	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5—		Fill. CLAY, strong of	dor (saturated at 7	' bgs.).						- - -	N/W	
-		Black SANDY	GRAVEL. End of Boring		0000				▼ -			
_ _ _ _										- - - -		
_										- - -		
	= parts	per million w ground surfac	_	ows per foot Well Installe						_	e collected	
Drilling Method: Geoprobe 6620DT Date of Measurement:						7.00 ft bgs 8/13/2012 569313.00002						

Soil E	Soring Log			Boring No.: SB-440 Monitoring Well No.: N/W							
Project:	The Dow Chem Philadelphia, P			Date Sta Date Fin				9/13/1 9/13/1			
Survey Location:	N E	Ground Elevation:	Inner Casir Elevation:	ng	ft.	1		Outer Casing Elevation: ft.			
DEPTH, ft. ELEVATION		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
- - - - 5— - - 10— - - - 15— - -	Wood Fragment bgs., stain on wa	ts with GRAVEL (sater).		turated at 8'				- - - - - - -	N/W		
Notes: ppm = parts per million											

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

Depth to Water: 8.00 ft bgs

Date of Measurement: 9/13/2012

Project No.: 41569313.00002

Sc	oil Bo	oring Log			Boring No.: SB-441 Monitoring Well No.: N/W							
Proje	CT.	The Dow Che Philadelphia	emical Company , PA	Date Sta Date Fin				9/13/12 9/13/12				
Surve	-	N E	Ground Elevation: ft.	Inner Casi Elevation:	_		·-	Outer Casing Elevation: ft.				
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC DESCRIPTION		LITHOLOGY	SPT (bpf)	PID Soil Screen (ppm)	WELL	WELL MATERIALS			
		NO RECOV	ERY.						J/W			
-									, , ,			
5		Black SAND	o, fine to medium, little silt, trace g	ravel.			48.3					
-		Black SAND	o, medium to coarse, little silt, little	gravel.			36.2					
.0—		coarse sand,	wood fragments, NAPL.				203	_				
		some gravel.					72.3					
-												
15—			Pol Chair (1911									
_			End of Boring at 15' bgs.									
_												

-			
	NI	Otog	
	N	いにつ	

ppm = parts per million

bpf = blows per foot

(a) = Analytical sample collected

bgs = below ground surface

N/W = No Well Installed

▼ = water level at completion

Zebra
Geoprobe 6620DT
GSC

Depth to Water: ft bgs

Date of Measurement:
Project No.: 41569313.00002

Projec	ът.	The Dow Che	emical Company , PA		Date Sta Date Fin	rtec	d:		ng W	9/13/12 9/13/12		
Surve Locati	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.		Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
5		bgs.).	ELLY SAND, fine to).	aturated at 7'				40.5	- - - - - - -	N/W	
	parts	per million w ground surf	-	ws per foot Well Installe	ed <u>Y</u>					_	e collected npletion	
		Driller: Method: aspector:	Zebra Geoprobe 6620D GSC	T	Date		1eas	sur	Water: ement: ct No.:		7.00 ft bgs 9/13/2012 569313.00002	

Soil E	Boring Log		Boring No.: SB-443 Monitoring Well No.: N/W							
Project:	The Dow Che Philadelphia,	mical Company PA	Date Sta Date Fin					9/13/12 9/13/12		
Survey N Location: E		Ground Elevation: ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.		
DEPTH, ft.	(FT. ABOVE MSL)	STRATIGRAPHIC DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Concrete and I	Fill. Y SILT with GRAVEL.		=======================================				-	N/W	
				+ + + +				-		
5————	Dark Brown C	CLAY, (saturated at 8' bgs.).								
_								-		
0								_ -		
	Dark Brown S	ILTY SAND (saturated).						▼ -		
15		End of Boring at 15' bgs.						_		
								_		
								_		

Notes:

ppm = parts per million

bpf = blows per foot

(a) = Analytical sample collected

bgs = below ground surface N/W = No Well Installed

▼ = water level at completion

Driller: Zebra

Drilling Method: Geoprobe 6620DT

Field Inspector: GSC

 Depth to Water:
 12.00 ft bgs

 Date of Measurement:
 9/13/2012

 Project No.:
 41569313.00002

S	oil B	oring Log									1 / SB-77 lo.: Vapor Point		
Proje	act.	Rohm and Haa Philadelphia, F	-	a Plant	Date St Date Fi	07 07							
Surv	ey ition:	N256197.28 E2722240.42	Ground Elevation:	7.34 ft.		Inner Casing Elevation: 7.04 ft.					Outer Casing Elevation: 7.34 ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS		
5—	3.3	Asphalt Dark gray to gradense, dry Saturated at 4 for End of Boring a		ND with grave	l, medium					▼ -	Flush Mount Casing Bentonite Seal #1 Sand 0.10 Slot Screen Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet		
Notes: ppm = parts per million													
	Driller: Eichel: Martinez/Livingston Depth to Water: 4.00 ft bgs Drilling Method: CME 75 HSA / Geoprobe Field Inspector: J. Bridge/ M. Pitchford Depth to Water: 4.00 ft bgs Date of Measurement: 10/16/2007 Project No.: 19997570.00003												

Soil E	Boring Log				_	-			2 / SB-145 lo.: Vapor Point		
Project:	Rohm and Haa Philadelphia, I	-	a Plant	Date Started: 10/16/07 Date Finished: 10/16/07							
Survey Location	N256175.00 E2722266.61	Ground Elevation:	7.39 ft.	Inner Casi Elevation:	•				Outer Casing Elevation: 7.40 ft.		
DEPTH, ft. ELEVATION		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Gray to Brown dense, dry Saturated at 4 f Note: Water ha	s oily sheen with						0.0 121 205 3150	¥ -		
	ppm = parts per million bpf = blows per foot (a) = Analytical sample collected bgs = below ground surface $N/W = No$ Well Installed $\Psi = water$ level at completion										
	Driller:Eichel: Martinez/LivingstonDepth to Water:4.00 ft bgsDrilling Method:CME 75 HSA / GeoprobeDate of Measurement:10/16/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

Mor Project: Rohm and Haas Philadelphia Plant Date Starte										Boring No.: VP-03 / SB-147 Monitoring Well No.: Vapor Point				
Proje	JCT.	Rohm and Haa Philadelphia, F	-	a Plant	Date St Date Fi			<u> </u>		10/16/ 10/16/				
Surv Loca	ey ition:	N256130.80 E2722287.50	Ground Elevation:	7.70 ft.	Inner Cas Elevation	_	7.3	37 f	t.		er Casing ation: 7.68 ft.			
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS			
5—	<u>-0.3</u>	Asphalt Gray-black-brodensity, dry-modensity Saturated at 4 for the second sec		SAND with grav	vel, medium				147 812 1725 3750	▼ -	Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen Analytical soil sample collected at 0-2 feet Analytical soil sample collected at 3-4 feet			
	= parts	s per million ow ground surfac		ows per foot o Well Install	ed				-	_	e collected npletion			
	Driller: Eichelbergers- Mike LivingstonDepth to Water:4.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/16/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003													

S	oil B	oring Log					_	_			4 / SB-148 lo.: Vapor Point
Proje	JCI.	Rohm and Haa Philadelphia, F	_	a Plant	Date St Date Fi			:		11/13/ 11/13/	
Surv	ey ition:	N256093.46 E2722268.56	Ground Elevation:	7.53 ft.	Inner Cas Elevation	_	7.2	27	ft.		er Casing ation: 7.58 ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	7.3 6.8 5.1	Light gray fine-		th gravel, dense	e, dry		7 7 8 2 25 7 3		95.6 214 137 1784	¥ -	Flush Mount Casing Bentonite Seal # 1 Sand 0.10 Slot Screen Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet
	= parts	s per million w ground surface	_	ows per foot o Well Install	ed	(a) ▼			-	_	le collected mpletion
	Driller: Eichelbergers - Mike MartinezDepth to Water:4.00 ft bgsDrilling Method:CME 75 HSADate of Measurement:11/13/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

											5 / SB-73 lo.: Vapor Point
Proj	ect:	Rohm and Haa Philadelphia, F	-	ia Plant	Date Sta Date Fir					10/17/0 10/17/0	
Surv Loca	ey ation:	N256309.77 E2722116.38	Ground Elevation:	5.82 ft.	Inner Casi Elevation:	_	5.6	33 1	ft.		r Casing ation: 5.90 ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Dark brown to I fragments, loose Moist at 1.5 fee		e SAND with gr	avel and brick				0.0		Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot
Saturated at 3 feet Saturated at 3 feet 1.8											
5—	1.8	End of Boring a	at 4 feet bgs							_	Analytical soil sample collected from 0.0-2.0 feet
-										_	Analytical soil sample collected from 2.0-3.0 feet
	= part	s per million ow ground surface	-	lows per foot No Well Install	ed 2				-	_	e collected npletion
			el: Martinez/Li E 75 HSA / Ge Bridge/ M. Pitc	oprobe	Date		Лea	sur	Water ement	:	3.00 ft bgs 10/17/2007 997570.00003

So	oil B	oring Log					_				6 / SB-78 lo.: Vapor Point
Proje	ect:	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir			ı		10/16/0 10/16/0	
Surv Loca	-	N256152.92 E2722127.77	Ground Elevation:	6.92 ft.	Inner Casi Elevation:	_	6.6	88 f	t.		r Casing ation: 6.95 ft.
DЕРТН, ff.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIO	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—	2.9	Asphalt Gray to brown to saturated at 4 feee saturated at 4 feee saturated at 4 feees saturated at 4 feees saturated at 4 fee saturated at 4 feees saturated at 4 fee saturated at 5 fee saturated at 6 fe	fine-coarse SAN eet at 4 feet bgs	D with gravel, r	nedium dense,				0.0 3.6 0.0 16.4	▼ -	Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet
	= part	s per million ow ground surfac	_	lows per foot Io Well Install	ed 2				-	_	e collected npletion
	_	Method: \overline{CM}	el: Martinez/Liv E 75 HSA / Ge Bridge/ M. Pitc	oprobe	Date	_	1ea	sur	Water ement et No.	:	4.00 ft bgs 10/16/2007 997570.00003

Soil Bo	oring Log									7 / SB-132 lo.: Vapor Point
Project.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin					0/22/(0/22/(
Survey Location:	N256096.60 E2721914.93	Ground Elevation:	6.88 ft.	Inner Casi Elevation:	_	6.5	4 ft.			er Casing ation: 6.88 ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil	Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	Asphalt Dark brown, Cl medium dense, Saturated at 3 fe		SAND with gra	evel, loose to			0. 0. 0.	0	¥ -	Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen Analytical soil sample collected at 0-2 feet
_	End of boring at 4 feet bgs									
	s per million w ground surface	-	ows per foot o Well Install				-		_	e collected npletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:3.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/22/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003									

Project:	Rohm and Haa Philadelphia, F	ia Plant	Date Started: 10/11/07 Date Finished: 10/11/07							
Survey Location:	N256001.81 E2722222.20	Ground Elevation:	9.21 ft.	Inner Casi Elevation:	_	8.8	36 t	ft.		er Casing ation: 9.23 ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)	,	STRATIGRAPHI	C DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
	Asphalt Brown to grayis angular gravel, Moist at 3 feet Dark grayish bl. angular gravel, CONCRETE End of Boring a	ack fine-coarse saturated at 4 fe						0.0 0.0 0.0 7.4	▼ -	Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 3.0-4.0 feet
	ts per million	_	lows per foot No Well Instal					-	_	le collected mpletion

So	oil B	oring Log					•	_			9 / SB-143 lo.: Vapor Point
Proje	JCT'	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta			:		11/12/ 11/12/	
Surv Loca	-	N256210.50 E2722290.77	Ground Elevation:	6.88 ft.	Inner Cas Elevation:	_	6.	50 1	ft.		er Casing ation: 6.89 ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_	4.9		oarse SAND and				5 11 5		0.0		Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen
_			earse SAND and				5		0.0	- -	
5—	0.9	Saturated at 4 fo	eet, slight sheen o	on saturated soil	l		3			_	Analytical soil sample collected from 0.0-2.0 feet
_		End of boring a				-			-	Analytical soil sample collected from 2.0-4.0 feet	
Notes	Notes:										
ppm	= parts	s per million w ground surfac		ows per foot o Well Install	ed				-	_	e collected mpletion
	_	Method: CMI	el: Martinez/Liv E 75 HSA / Geo Bridge/ M. Pitc	oprobe	Date		Mea	asur	Water ement	t:	4.00 ft bgs 11/12/2007 997570.00003

So	il B	oring Log					_				0 / SB-152 lo.: Vapor Point
Proje	ct.	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir			:		10/8/0 10/8/0	
Surve Locat	-	N255929.60 E2722205.90	Ground Elevation:	7.30 ft.	Inner Casi Elevation:	_	7.7	70 1	ft.		er Casing ation: 7.96 ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	<u>-0.7</u>	GRAVEL Black, well sort Saturated at 4 for the sort of boring at		nedium density,	moist				0.0 9.8 0.1 5.8	▼ -	Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen Analytical soil sample collected at 0-2 feet Analytical soil sample collected at 3-4 feet
	= parts	s per million w ground surfac		ows per foot o Well Install	ed :				-	_	e collected mpletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:4.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/8/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

Soil B	oring Log					_				1 / SB-123 lo.: Vapor Point	
Project:	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fin			i		10/18/ 10/18/		
Survey Location:	N255937.70 E2721558.80	Ground Elevation:	6.20 ft.	Inner Casi Elevation:	ng	5.8	32 t	ft.		er Casing ation: 6.16 ft.	
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
	Asphalt Light brown-broloose, dry	own, fine-coarse	SAND with gra	vel fragments,				4.1		Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen	
2.2	Soil moist at 2.5 Brown-dark bro loose, saturated	5 feet own, fine-coarse S	vel fragments,				5.1	▼ -	Analytical soil sample collected at 0-2 feet Analytical soil sample collected at 2-3 feet		
Notes: ppm = part	bpf = bl				-	_	e collected				
		oergers- Mike L	o Well Install		De	pth	to	Water	·:	3.00 ft bgs	
_	Driller: Eichelbergers- Mike Livingston Depth to Water: 3.00 ft bgs Drilling Method: Geoprobe Date of Measurement: 10/18/2007 Field Inspector: J. Bridge/ M. Pitchford Project No.: 19997570.00003										

S	oil B	oring Log						_			2 / SB-127 lo.: Vapor Point
Proje	DCT'	Rohm and Haa Philadelphia, F	_	a Plant	Date Sta			:		10/22/ 10/22/	
Surv	ey ition:	N256311.50 E2721705.00	Ground Elevation:	7.00 ft.	Inner Cas Elevation:	_	6.0	67	ft.		er Casing ation: 6.98 ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_	<u>6.8</u>		fragments, loose	, ,	, loose,				0.0		Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen
_	Analytical soil sample collected at 0-2 feet 3.0 Note: Groundwater not										
	= parts	s per million w ground surfac	_	ows per foot o Well Install	ed				-	_	e collected mpletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:ft bgsDrilling Method:GeoprobeDate of Measurement:10/22/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

S	oil B	oring Log					-	_			3 / SB-126 lo.: Vapor Point
Proje	act'	Rohm and Haa Philadelphia, F	-	a Plant	Date Sta Date Fir			:		10/22/ 10/22/	
Surv Loca	ey ition:	N256258.43 E2721572.57	Ground Elevation:	5.47 ft.	Inner Casi Elevation:	_	5.2	24	ft.		er Casing ation: 5.48 ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_	5.2	Asphalt Dark brown-bla	ack fine-coarse Sz	AND with grav	el, loose, wet				0.0		Flush Mount Casing Concrete Bentonite Seal #1 Sand 0.10 Slot Screen
Saturated at 2 feet - 2.0									3.6 0.7	-	Analytical soil sample collected at 0-2 feet
5—		End of boring a	t 3.5 feet bgs							-	
_										-	
_											
	= parts	s per million w ground surfac	_	ows per foot o Well Install	ed :				-	_	e collected mpletion
	Driller: Eichelbergers- Mike LivingstonDepth to Water:2.00 ft bgsDrilling Method:GeoprobeDate of Measurement:10/22/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

So	oil Bo	oring Log									4 / SB-165 lo.: Vapor Point
Proje	CI.	Rohm and Haa Philadelphia, F	_	a Plant	Date Sta Date Fin			:		10/5/0 10/5/0	
Surve	-	N255023.00 E2721636.84	Ground Elevation:	7.78 ft.	Inner Casi Elevation:	_	7.3	37 t	ft.		er Casing ation: 7.79 ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—	<u>-0.2</u>	Asphalt Dark brown to b fragments, loose Intermittent qua Saturated at 6 fee	eet	ne-coarse SAN dry	D with gravel				0.0 0.0 0.0 0.0 0.0 0.0	▼ -	# 1 Sand 0.10 Slot Screen Analytical soil sample collected from 0.0-2.0 feet Analytical soil sample collected from 5.0-6.0
	= parts	per million w ground surfac		ows per foot o Well Install					-	_	le collected mpletion
	Driller:Eichel: Martinez/LivingstonDepth to Water:6.00 ft bgsDrilling Method:CME 75 HSA / GeoprobeDate of Measurement:10/5/2007Field Inspector:J. Bridge/ M. PitchfordProject No.:19997570.00003										

Soil Boring Log Boring No.: VP-20 / SB-217 Monitoring Well No.: N\W Project: The Dow Chemical Company Date Started: 12/15/08											
Proje	ort.	The Dow Chem Philadelphia, P		Date Sta Date Fir					12/15/0 12/15/0		
Surv	ey tion:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			r Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC [DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
_		(Moist)	lack f-m SAND, was						0.0		Flush Mount Casing Concrete Granular Bentonite Seal #1 Sand 0.10 Slot Screen
_	 	\(Saturated)	wn silty med. SAN SAND, w/ intermit							<u>-</u>	
_		Brown coarse S.	 ent ang. gravel	(Saturated)	0 (_		
5			End of Boring	g 5' bgs						-	
	otes: $m = parts per million$ $pti = blows per foot$ $pti = blows p$										
	Driller:EichelbergersDepth to Water:2.00 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:12/15/08Field Inspector:JTB / MSPProject No.:19998083.00003										

S	oil B	oring Log					_				I / SB-220 o.: N\W
Proje	ect:	The Dow Chem Philadelphia, P	_	Date Sta Date Fin					1/6/09 1/6/09		
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Gravel Brown f-c SAN	D & fine ang. GRA	AVEL (Dry)					0.0		Flush Mount Casing Concrete Granular Bentonite Seal
_		Brown f-c SAN	AVEL (Moist)					0.0		#1 Sand 0.10 Slot Screen	
_		Brown coarse S.	AND & f-c ang. G	RAVEL (Satur	 rated)	=======================================				▼ -	
5—			End of Boring	g 4.5' bgs		<u>:1=</u>				_	
_										_	
_										_	
_										-	
NT.											
	= parts	s per million w ground surface		ows per foot Well Installe	ed <u>Y</u>						e collected npletion
	_	Driller: Method: C	<u>T</u>	Depth to Water: 4.00 ft bgs Date of Measurement: 1/6/2009 Project No.: 19998083.00003					1/6/2009		

S	oil B	oring Log					_				2 / SB-208 o.: N\W
Proje	ect:	The Dow Chem Philadelphia, P			Date Sta Date Fin					12/16/0 12/16/0	
Surv	ey ation:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Gray GRAVEL Dk. Brown very some glass frags	, w/ subrounde	d gravel,				0.0		Flush Mount Casing Concrete Granular Bentonite Seal	
_		Lt. Brown well (Moist)	led, very dense	, med. SAND				0.0		#1 Sand 0.10 Slot Screen	
5—		Dk. Brown dens	se, coarse SAND & End of Borir		L (Saturated)	0			0.0	<u>*</u>	
_									-		
-									-		
	= parts	s per million ow ground surfac	_	ows per foot o Well Installe	ed					_	e collected npletion
	_	Driller: Method: Conspector:	T	Date		/leas	sur	Water ement ct No.	:	4.50 ft bgs 12/16/2008 1998083.00003	

So	oil Bo	oring Log			Boring No.: VP-23 / SB-301 Monitoring Well No.: N\W							
Proje	CT.	The Dow Chem Philadelphia, P			Date St					12/18/(12/18/(
Surv	-	N E	Ground Elevation:	ft.	Inner Cas Elevation:	_	,	ft.			r Casing ation:	t.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	Screen (ppm)	WELL SCHEMATIC	WELL MATERIA	
_		Asphalt Black to brown (Dry)	to tan, f-m silty SAN	ND & f-c ang	GRAVEL				0.0 9.1		Flush Mount C Concrete Granular Bento	, I
_		Dk. Gray to Bro trace f-m rounde	wn to Dk. Gray, f-n ed gravel, (strong od	n silty SAND, or) (Moist)	trace clay,				412 594		#1 Sand 0.10 Slot Scree	n
_		Dk. Gray to Bro trace f-m rounde	wn to Dk. Gray, f-n d gravel, (strong od	n silty SAND, or) (Saturated	trace clay,					<u>∓</u> -		
	= parts	per million	bpf = blow	s per foot	d			-		_	e collected	
D	Driller: Eichelbergers Depth to Water: 4.00 ft bgs Drilling Method: Geoprobe 6620DT Date of Measurement: 12/18/2008 Field Inspector: JTB / MSP Project No.: 19998083.00003											

So	oil Bo	ring Log					_				l / SB-261 o.: N∖W
Proje	v∩t.	Γhe Dow Chem Philadelphia, P			Date Sta Date Fir					12/18/0 12/18/0	
Surve Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
5—		gravel (Dry)	ish Brown f-m silty -m clayey SAND to aturated at 5') End of Boring	sandy CLAY					0.0 0.0 3.8 9.0	¥	Flush Mount Casing Concrete Bentonite Hole Plug Seal Granular Bentonite Seal #1 Sand 0.10 Slot Screen
	lotes: pm = parts per million bpf = blows per foot (a) = Analytical sample collected gs = below ground surface N/W = No Well Installed ▼ = water level at completion										
	Driller: Eichelbergers Depth to Water: 5.00 ft bgs Drilling Method: Geoprobe 6620DT Date of Measurement: 12/18/2008 Field Inspector: JTB / MSP Project No.: 19998083.00003										

S	oil B	oring Log				_				5 / SB-260 o.: N\W	
Proje	ect:	The Dow Chem Philadelphia, P		Date Sta Date Fir					12/18/0 12/18/0		
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Brown f-c silty	SAND & f-c round	l & ang. gravel	(Dry)				0.0		Flush Mount Casing Concrete Bentonite Hole Plug Seal
_		Red BRICK frag	silty CLAY (D	 ry)				0.0		Granular Bentonite Seal	
5—	·	Dk. Gray coarse Gray (strong ode	SAND, grading to or from 5-10') (Dry	Brown then b	ack to Dk.				76 30.3		#1 Sand
_		(Saturated at 7')							173	<u> </u>	0.10 Slot Screen
_										-	
			End of Boring	g 10' bgs							
	= parts	s per million w ground surfac	-	ws per foot Well Installe	ed					_	e collected npletion
	Driller:EichelbergersDepth to Water:7.00 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:12/18/2008Field Inspector:JTB / MSPProject No.:19998083.00003										

S	oil B	oring Log				_				6 / SB-273 o.: N\W	
Proje	ect:	The Dow Chem Philadelphia, P		Date S Date F					1/8/09 1/8/09		
Surv	ey ition:	N E	Ground Elevation:	ft.	Inner Cas	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC		Lievation	LITHOLOGY		SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Brown f-c SAN (Building Debris	D & GRAVEL, w/	brick & concr	ete frags				0.0 0.0 0.0		Flush Mount Casing Concrete Bentonite Hole Plug Seal
5—		Black med. dens (Moist)	se f-c SAND, w/ f-	m subrounded	ang. gravel				0.0		#1 Sand 0.10 Slot Screen
_		Black f-c SAND	D, w/ f-c gravel (Sa	turated)					0.0	¥ -	
_			ND, w/ f-c gravel (ery hard, silty CL							-	
Black f-c SAND, w/ f-c gravel (Saturated) End of Boring 10' bgs											
ppm	Notes: opm = parts per million										
	Driller:EichelbergersDepth to Water:6.50 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:1/8/2009Field Inspector:JTB / MCProject No.:19998083.00003										

So	oil B	oring Log					_				7 / SB-304 o.: N\W
Proje	ect:	The Dow Chem Philadelphia, P		Date Standard					1/14/0 1/14/0		
Surve	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Weathered Cond	crete (Dry)			〒4 ・1 ・1 ・1 ・1 ・1 ・1 ・1 ・1 ・1 ・1 ・1 ・1 ・1			0.0		Flush Mount Casing Concrete Bentonite Hole Plug Seal
		Brown f-c SAN	ded gravel (M	oist)				0.0		Granular Bentonite Seal	
5—		Red BRICK frag Dk. Brown to B	I (Moist)				0.0		#1 Sand 0.10 Slot Screen		
-			lack f-c SAND, w/ ND, w/ f-c ang. gra						2.1	<u>*</u> -	
_		Black f-c SAND	avel (Saturated						-		
	= parts	s per million ow ground surface	_	ws per foot Well Installe	ed				-	_	e collected npletion
	_	Driller: Method: C	Eichelbergers Geoprobe 6620D' JTB / MC	Γ	Depth to Water: 6.00 ft bgs Date of Measurement: 1/14/2009 Project No.: 19998083.00003					1/14/2009	

S	oil B	oring Log					_				3 / SB-275 o.: N∖W
Proj	ect:	The Dow Chem Philadelphia, P		Date Sta Date Fir					1/7/09 1/7/09		
Surv	ey ation:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt BRICK & CON	CRETE (Building	debris) (Dry)					0.0		Flush Mount Casing Concrete Granular Bentonite Seal
_		fine ang. gravel	c. Brown hard, silty (Moist)			0.00			0.0		#1 Sand 0.10 Slot Screen
5—	_===	Gray f-m SANI	n SAND, w/ fine an O, w/ fine ang. grav D, w/ fine ang. grav	el (Saturated)						<u>*</u> -	
_		Dk. Red f-m SA Gray to Black f- (Saturated)						-			
_		Brown f-c SAN	D, w/ f-c ang. subr	(Saturated)					-		
Note ppm bgs	= part	s per million ow ground surfac	-	ws per foot Well Installe	ed				-	_	e collected npletion
	Driller:EichelbergersDepth to Water:4.00 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:1/7/2009Field Inspector:JTB / MCProject No.:19998083.00003										

Sc	oil Bo	oring Log		Boring No.: VP-28 / SB-275 Monitoring Well No.: N\W							
Proje	CI.	The Dow Cher Philadelphia, I	nical Company PA		Date Sta Date Fin					1/7/09 1/7/09	
Surve Locat	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.		Outer (-
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	= parts	per million w ground surface	bpf = blov	10' bgs	d					sample c	
Dı	rilling	Driller:	wen mstane	Depth to Water: Depth to Water: Date of Measurement: 1/7/2009 Project No.: 19998083.00003					.00 ft bgs 1/7/2009		

Soil Boring Log Boring No.: VP-29 / SB-278 Monitoring Well No.: N\W Date Started: 1/9/09											
Proje	ort.	The Dow Chem Philadelphia, P	• •		Date Sta Date Fin					1/9/09 1/9/09	
Surv	-	N E	Ground Elevation:	ft.	Inner Casii Elevation:	ng		ft.			r Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—		Tan f-m SAND,	w/ f-c GRAVEL (w/ m-c GRAVEL (se, clayey silty f-m at 2') End of Boring	(Dry) SAND, w/ f-1	n GRAVEL	(1) 等以等以等以等以等以等以等以等以等以等以等以等以等以等以等以等以等以等以等以			10.1	¥ -	Flush Mount Casing Concrete Granular Bentonite Seal #1 Sand 0.10 Slot Screen
	= parts	per million w ground surface	bpf = blow e N/W = No	vs per foot Well Installe	ed :				-	_	e collected apletion
	Driller:EichelbergersDepth to Water:2.00 ft bgsDrilling Method:Geoprobe 6620DTDate of Measurement:1/9/2009Field Inspector:JTB / MCProject No.:19998083.00003										

So	oil Bo	oring Log					_				0 / SB-277 o.: N\W
Proje	rt∙	The Dow Chem Philadelphia, P	• •		Date Sta					1/8/09 1/8/09	
Surve	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_		ft.			r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5		(Moist) Black med. dens gravel (Wet)	ilty SAND, w/ f-c are, f-c silty SAND, c SAND & m-c ang	w/ f-c ang. sul	prounded				0.0 20.3 9.6	▼	Flush Mount Casing Concrete Granular Bentonite Seal #1 Sand 0.10 Slot Screen
	= parts	per million w ground surface	bpf = blow N/W = No	vs per foot Well Installe	d				-	_	e collected apletion
	Driller: Eichelbergers Depth to Water: 2.50 ft bgs Drilling Method: Geoprobe 6620DT Date of Measurement: 1/8/2009 Field Inspector: JTB / MC Project No.: 19998083.00003										

S	oil B	oring Log				SB-306 : N\W				
Proje	ect:	The Dow Che Philadelphia,	mical Company PA		Date Sta Date Fir					
Surv	ey ation:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_	f	t.	Outer (-
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES PID Soil Screen (ppm)	WELL	WELL MATERIALS
-		Dark gray mic	aceous medium densi	ty clayey SIL	T (Saturated)				_	
_			density f-c SAND and us medium density me ated)							
15— —			End of Boring	15' bgs						
	= parts	s per million ow ground surfa	bpf = blow ace $N/W = No V$	-	ed			-	sample coll at comple	
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620DT JTB / MC		Date	of M	[eas	o Water urement ject No.	: 1/	00 ft bgs /12/2009 /8083.00003

S	oil Bo	ring Log Boring No.: VP-33 / SB-315 Monitoring Well No.: N\W										
Proje	2 011	The Dow Chem Philadelphia, P			Date Sta Date Fin					1/15/0 1/15/0		
Surv	-	N E	Ground Elevation:	ft.	Inner Casing Elevation: ft.					Outer Casing Elevation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS	
		Asphalt Black f-c SAND	w/f-c ang. gravel	(Dry)					0.0		Flush Mount Casing Concrete Granular Bentonite Seal	
_		∖gravel frags (Dr	AND, w/ f-c round y)), w/ f-c ang gravel	C	rounded				0.0		#1 Sand 0.10 Slot Screen	
5—		Saturated at 4 ft.		g 5' bgc						<u> </u>		
Notes		per million	bpf = blov			(a)	= A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	vtical	sample	e collected	
	_	w ground surface	e N/W = No	Well Installe	d .	<u>*</u>	= v	vate	r leve	l at con	npletion	
	_	Driller: Method: Ospector:	Eichelbergers Geoprobe 6620D7 JTB / MC	Γ	Date		1ea	sure	Water: ement: et No.:		4.00 ft bgs 1/15/2009 998083.00003	

So	oil Bo	ring Log			Boring No.: VP-35 / SB-308 Monitoring Well No.: N\W						
Proje	vct.	Γhe Dow Chem Philadelphia, P			Date St Date Fi	08 08					
	Survey N Ground Location: E Elevation: ft.					ing		ft.			er Casing ation: ft.
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
_		Asphalt Brown f-m silty	SAND & f-c ang. (GRAVEL (Dr	y)				5.9 121		Flush Mount Casing Concrete Bentonite Hole Plug Seal
_			y SAND (strong od						207		
5		Brown to Dk. G rounded gravel (ray to Brown f-c si Moist)	lty SAND, tra	ce f-m		-		78.4 21.5		Granular Bentonite Seal
_									9.3		#1 Sand 0.10 Slot Screen
_			ray to Brown f-c si brick frags (Saturat y SAND & fine an) (Saturated)						1.2	-	
			End of Boring	g 10' bgs		<u> </u>					
	= parts	per million v ground surface	bpf = blov e N/W = No	ws per foot Well Installe	ed				-	_	e collected npletion
		Driller: Method: Spector:	Eichelbergers Geoprobe 6620D7 JTB / MSP	Γ	Date		Лea	sur	Water: ement: ct No.:		7.50 ft bgs 12/19/2008 998083.00003

S	oil B	oring Log					_				6 / SB-309 o.: N\W
Proje	ect:	The Dow Chem Philadelphia, P			Date Standard					12/19/0 12/19/0	
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Cas	_	ng ft.				r Casing ation: ft.
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
		Asphalt Brown to Dk. G (strong odor) (D	ray f-c silty SAND	& f-m ang. G	RAVEL				8.4		Flush Mount Casing Concrete Bentonite Hole Plug Seal
		Brown to Dk. G (strong odor) (D	ray f-c silty SANE ry)	D, some f-m an	g. gravel				5.5 81.4		
5		Dk. Gray f-m si (Dry)	Ity SAND, trace f-	c ang. gravel (s	strong odor)				1356 1996		Granular Bentonite Seal #1 Sand
-		Dk. Gray f-m si (Saturated)	Ity SAND, trace f-	c ang. gravel (s	trong odor)				1723 1880	▼ -	0.10 Slot Screen
			End of Boring	g 10' bgs		+					
	= parts	s per million ow ground surfac	-	ws per foot Well Installe	ed				-	_	e collected npletion
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MSP	T	Date	_	leas	sure	Vater: ment: t No.:		8.00 ft bgs 12/19/2008 998083.00003

S	oil B	oring Log			Boring No.: VP-37 / SB-312 Monitoring Well No.: N\W							
Proje	ect:	The Dow Chen Philadelphia, F			Date Started: Date Finished:					1/13/09 1/13/09		
Surv	еу	N	Ground		Inner Casin	ıg				Oute	r Casing	
Loca	tion:	E	Elevation:	ft.	Elevation:			ft.		Eleva	ation: ft.	
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
		Asphalt Brown med. SA sorted (Moist)	ND, w/ fine ang. s (Petroleum odor at	ubrounded gra 10')	vel, well				0.0		Flush Mount Casing Concrete Bentonite Hole Plug Seal	
_									0.0			
_									0.0			
5									0.0			
_									1.2			
_									2.4		Cronvlan Dontonita Scal	
_									0.0		Granular Bentonite Seal	
	= parts	s per million w ground surfac	_	ws per foot Well Installe				-		_	e collected apletion	
	_	Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MC	Γ	Date o	of M	leas	urei	/ater: ment: No.:		12.50 ft bgs 1/13/2009 998083.00003	

Soil Boring Log Boring No.: VP-37 / SB-312 Monitoring Well No.: N\W											
Project:	The Dow Chen Philadelphia, F	nical Company PA		Date Sta Date Fin					1/13/09 1/13/09		
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.			er Casing ation: ft.	
DEPTH, ft. ELEVATION		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
15	sorted (Saturate	AND, w/ fine ang. sed) well sorted med. Set vel (Saturated) End of Boring	AND, w/ fine a					106 23.1	▼	#1 Sand 0.10 Slot Screen	
	ts per million ow ground surface Driller:	_	ws per foot Well Installe	d	▼ :	= w	ate	-	l at con	e collected inpletion 12.50 ft bgs	
	g Method:	Geoprobe 6620D' JTB / MC	T	Date	_	leas	sure	ement: et No.:		1/13/2009 998083.00003	

S	oil B	oring Log				_			VP-38 / SB-249 Well No.: N\W				
Proje	Project: The Dow Chemical Company Philadelphia, PA				Date Started: Date Finished:					12/19/08 12/19/08			
Surv Loca	-	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng		ft.			r Casing ation: ft.		
DEPTH, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS		
		Asphalt Brown to Dk. B brick frags, trace	rown f-c silty SAN e clay (Dry)	ID & f-m ang.	GRAVEL, f-c				0.0	= =	Flush Mount Casing Concrete Bentonite Seal		
_									0.0				
_		Brown to Dk. B f-c brick frags, t	rown f-c silty SAN race clay (Dry)	D, w/ some f-					2.2				
_						+ + + + +			0.0				
5		Brown f-m silty	SAND, some f-c a	ing. gravel (Dr					2.4				
						# # # # #			0.0				
_									6.1		Granular Bentonite Seal		
						+ + + + + +			0.0				
	= parts	s per million w ground surfac	_	ws per foot Well Installe	ed :				-	_	e collected apletion		
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D JTB / MSP	Γ	Date	_	leas	sure	Water: ement: et No.:		15.00 ft bgs 12/19/2008 998083.00003		

Soil E	Soil Boring Log Boring No.: VP-38 / SB-249 Monitoring Well No.: N\W									
Project:	The Dow Chen Philadelphia, P			Date Sta Date Fin					12/19/0 12/19/0	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casir Elevation:		ft.			er Casing ation: ft.	
DEPTH, ft. ELEVATION	(TI. ABOVE MSL)	STRATIGRAPHIC D	ESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Brown f-m silty	SAND (Moist)						26.5		#1 Sand
								21.4		0.10 Slot Screen
								329	_	
								1111	_	
15								1964	<u> </u>	
Notes:	ts per million	End of Boring bpf = blow			(a)	= A	anal	lytical	sample	e collected
	low ground surfac	$N/W = No^{-1}$		d y	<u></u>	= v	ate	er leve	l at con	npletion
	Driller: g Method: Inspector:	Eichelbergers Geoprobe 6620DT JTB / MSP	·	Date o		/lea	sure	Water: ement et No.		15.00 ft bgs 12/19/2008 1998083.00003

S	oil B	oring Log					_				9 / SB-250 o.: N\W	
Proje	ect:	The Dow Chem Philadelphia, P			Date Sta Date Fin					1/22/09 1/22/09		
Surv Loca	ey ition:	N E	Ground Elevation:	ft.	Inner Casii Elevation:	_				Outer Casing Elevation: ft.		
DЕРТН, ft.	ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS	
_ _ _ 5—		Asphalt BRICK & CON Concrete Metal Concrete	CRETE frags (Bui	Iding Rubble)							Flush Mount Casing Concrete Bentonite Seal	
_		Black f-c SAND	D, w/ f-c gravel and End of Boring		vet)	各位 · 是 · 是 · 是 · 是 · 是 · 是 · 是 · 是 · 是 ·			34.6		#1 Sand 0.10 Slot Screen	
	= parts	s per million w ground surfac	-	ws per foot Well Installe	d :						e collected mpletion	
		Driller: Method: nspector:	Eichelbergers Geoprobe 6620D' JTB / MC	Γ	Date		1eas	sure	Water: ement: ct No.:		10.00 ft bgs 1/22/2009 9998083.00003	

Soil B	Soring Log					_		VP-40 /ell N	
Project:	The Dow Cher Philadelphia, I	mical Company PA		Date Sta Date Fin				3/30/1 3/30/1	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	ng	ft.	T	er Casing ation: ft.	
DEPTH, ft. ELEVATION (FT ABOVE MS1)		STRATIGRAPHIC I	DESCRIPTION		LITHOLOGY	SPI (bpt) SAMPLES	PID Soil Screen (ppm)	WELL	WELL MATERIALS
	Asphalt Dk. Brown f-c s	sandy SILT, abunde	nt brick frags (Dry)					Flush Mount Casing Concrete Bentonite/ Grout Mixture
5—	Dk. Gray f-c san	ndy SILT, abundent	brick frags (D	ry)					Bentonite Seal #1 Sand Stainless Steel VI Screen
	Dk. Gray f-c sai	ndy SILT, abundent	brick frags (we	et)				Y	
_		End of Borin	g 7' bgs					-	
	s per million ow ground surface	$bpf = blow \\ N/W = No$	ws per foot Well Installe	d :			-	_	collected pletion
	Driller:g Method:	Parratt-Wolff Hand Auger GSC		Date	of M	easu	Water rement ect No.	:	6.00 ft bgs 4/3/2017 998083.00003

Soil Boring Log Boring No.: VP-41 Monitoring Well No.: Date Started: The Dow Chemical Company 3/30/17 **Project:** Philadelphia, PA **Date Finished:** 3/30/17 Survey N Ground **Inner Casing Outer Casing** Location: E **Elevation:** ft. **Elevation:** ft. **Elevation:** ft. ELEVATION (FT. ABOVE MSL) PID Soil Screen (ppm) WELL SCHEMATIC LITHOLOGY SPT (bpf) DEPTH, ft. SAMPLES WELL STRATIGRAPHIC DESCRIPTION **MATERIALS** Asphalt Flush Mount Casing Concrete Brown f-c sandy SILT, abundent brick and slag frags (Dry) Bentonite/ Grout Mixture Bentonite Seal #1 Sand Dark Brown f-c sandy SILT, abundent brick and slag frags Stainless Steel VI Screen 5-Dark Brown f-c sandy SILT, abundent brick and slag frags (wet) End of Boring 7' bgs Notes: ppm = parts per million bpf = blows per foot (a) = Analytical sample collected N/W = No Well Installed bgs = below ground surface Driller: Parratt-Wolff Depth to Water: 6.00 ft bgs Drilling Method: Hand Auger Date of Measurement: 4/3/2017 Field Inspector: **GSC** Project No.: 19998083.00003

Soil B	oring Log					_			/P-42 ell No	
Project:	The Dow Cher Philadelphia, F	mical Company PA		Date Sta Date Fin					3/30/1 3/30/1	
Survey Location:	N E	Ground Elevation:	ft.	Inner Casi Elevation:	_					er Casing ation: ft.
DEPTH, ft. ELEVATION (FT. ABOVE MSL)		STRATIGRAPHIC D	DESCRIPTION		LITHOLOGY	SPT (bpf)	SAMPLES	PID Soil Screen (ppm)	WELL SCHEMATIC	WELL MATERIALS
5—	Orange Brown (Dry)	SAND with some si	ilt, abundent c	indent cobbles	是外景的景的景的景的景的景的景的景的景的景的景的景的景的景的景的景的景的景的景的				<u> </u>	Flush Mount Casing Concrete Bentonite/ Grout Mixture Bentonite Seal #1 Sand Stainless Steel VI Screen
	s per million ow ground surface	$bpf = blow \\ N/W = No$	vs per foot Well Installe	d :					_	collected pletion
-	Driller: g Method: Inspector:	Parratt-Wolff Hand Auger GSC		Date	_	1ea	sure	Vater: ment: t No.:		6.00 ft bgs 4/3/2017 998083.00003